

Senators.		Counties.
William Allen.....		Ross.
Thomas Corwin		Warren.
Dist.	Representatives.	Counties.
1	James J. Faran.....	Hamilton.
2	Francis A. Cunningham.....	Preble.
3	Robert C. Schenck.....	Montgomery.
4	Joseph Vance	Champaign.
5	William Sawyer	Mercer.*
6	Henry St. John.....	Seneca.
7	Joseph J. McDowell	Highland.
8	Allen G. Thurman.....	Ross.
9	Augustus L. Perrill	Pickaway.
10	Columbus Delano.....	Knox.
11	Jacob Brinkerhoff.....	Richland.
12	Samuel F. Vinton	Gallia.
13	Isaac Parrish.....	Morgan.†
14	Alexander Harper, Jr.....	Muskingum.
15	Joseph Morris	Monroe.
16	John D. Cummins	Tuscarawas.
17	George Fries	Columbiana.
18	David A. Starkweather	Stark.
19	Daniel R. Tilden	Portage.
20	Joshua R. Giddings	Ashtabula.
21	Joseph M. Root.....	Huron.

Annual report

Ohio. Secretary of State





ANNUAL REPORT
OF THE
SECRETARY OF STATE,
TO THE
GOVERNOR OF THE STATE OF OHIO,
INCLUDING THE
STATISTICAL REPORT TO THE GENERAL ASSEMBLY,
FOR THE YEAR 1878.

1877/78

COLUMBUS:
NEVINS & MYERS, STATE PRINTERS.
1879.

529

10

ROY W. 30
OLSON
YRABLL

REPORT OF THE SECRETARY OF STATE.

OFFICE OF THE SECRETARY OF STATE,
COLUMBUS, OHIO, *December 15, 1878.*

To His Excellency RICHARD M. BISHOP, *Governor of Ohio :*

SIR: In compliance with the requirements of the Constitution and laws of the State, I have the honor herewith to submit the annual report of this department for the year ending with the 15th of November, 1878.

CORPORATIONS.

During the year there were filed in this office two hundred and sixteen certificates of incorporation, of companies having an aggregate capital stock of \$53,314,916, and sixty-one certificates of incorporation of companies or associations not having a capital stock, to wit: Seventy-one manufacturing companies, thirty railroad companies, fourteen mining companies, twenty-eight building and loan associations, ten printing and publishing companies, eight gas companies, four fire insurance companies, two saving and loan associations, four street railroad companies, four turnpike companies, one plank-road company, one company for building steamboats, and thirty-nine companies for various purposes other than the above. Proceedings were filed for the consolidation of three railroad companies and one street railroad company. Four companies filed proceedings for change of name, four for change of time of annual meeting, one for change of location of principal office, one for sale of corporate franchise, one for dissolution, and eleven railroad companies for extension of lines and branches. General tabular and classified statements of the same are prepared, and will be embodied in the report.

CITIES AND VILLAGES.

Five villages have been incorporated during the year, for general purposes, and territory has been annexed to seven. A table, with the name and location of each, will appear in the report.

PAPER FOR THE STATE.

As required by the provisions of the act of April 10, 1873, after having given due notice by advertisement, on the third day of September last,

in the presence of the bidders therefor, I opened the several bids and awarded the contracts for furnishing the State with paper for one year from November 1st, 1878, as follows :

To the Cleveland Paper Company, of Cleveland, Ohio, two thousand reams double super royal printing paper, at 7 44-100 cents per pound; two hundred reams double flat cap, at 11 50-100cents per pound; fifty reams brochure cover, at 11 50-100 cents per pound; seventy-five reams flat cap, at 12 cents per pound; seventy-five reams folio post, at 11 49 100 cents per pound. To Messrs. Chatfield & Woods, of Cincinnati, Ohio, twenty-five reams demy, at 14 95-100 cents per pound; and to Messrs. Miller, Green & Joyce, of Columbus, Ohio, fifty reams flat letter, at 13 39-100 cents per pound. The companies aforesaid being the lowest bidders for the classes of paper respectively awarded to them.

OHIO AND OHIO STATE REPORTS.

Of the Supreme Court Reports, three sets have been delivered during the year, as follows: One set to the Clerk of the Court of Franklin county, one set to the Attorney-General's office, and one set to the offices of the Clerk of the Supreme Court, for the use of those offices respectively.

On the 24th day of May, 1878, in obedience to the joint resolution of the General Assembly passed May 11, 1878, Ohio Laws, volume 75, page 1201, I entered into a contract, on behalf of the State, with Messrs. Robert Clarke & Co., of Cincinnati, Ohio, to print, bind, and supply the State with 350 copies of Volume 32, Ohio State Reports, and the same number of such other volumes as might be ready for publication prior to June 2, 1880.

STATUTES ON HAND.

There were on hand at the close of the year, of Swan's Revised Statutes, 8 copies; Swan & Critchfield, Vol. 1, 38 copies, and Vol. 2, 39 copies; Swan & Sayler's Supplement, 286 copies; Sayler, 128 copies, 4 volumes each; Curwen, Vol. 4, 232 copies; and Gholson & Okey's Digest, 240 copies.

STATIONERY.

A table showing the purchase and distribution of stationery for the year, will be given in this report; also a complete roster of the officers of the State and counties, and of the various benevolent, penal, and reformatory institutions of the State.

PRINTING FOR THE STATE.

On the 31st day of July, 1878, after giving due notice as required by law, the commissioners of public printing opened the bids for the vari-

ous classes of printing for the State, and awarded the contracts therefor as follows: To Messrs. Nevins & Myers—bills, composition per thousand ems, at 15 cents, press-work per token, 8 cents; reports, composition per thousand ems, 25 cents, press-work per token, 23 cents; laws, composition per thousand ems, 26 cents, press-work per token, 20 cents; Executive jobs, composition per thousand ems, 12 cents, press-work per token, 2 cents. To Messrs. G. J. Brand & Co.—journals, composition per thousand ems, 33½ cents, press-work per token, 27 cents. German printing, composition per thousand ems, 26 cents, press-work, 25 cents per token; translating per thousand ems, 44 50-100 cents.

The report of statistics will be as full and accurate as can well be with the means provided by law for collecting the same.

A number of eminent gentlemen have kindly furnished for this report carefully written contributions upon several topics of historical, scientific and practical interest, which will be found under their respective titles, with the names of the authors.

Very respectfully, your obedient servant,

MILTON BARNES, *Secretary of State.*

HISTORY
OF THE
MORAVIAN MISSIONS IN OHIO,
AND
MEMORIAL SKETCHES OF ITS MISSIONARIES.

HISTORY OF OUR MORAVIAN MISSIONS
AND
MEMORIAL SKETCHES OF OUR MISSIONARIES.

BY ISAAC SMUCKER.

The career or life-story of the laborious and self-sacrificing Moravian missionaries, and the establishment of Moravian mission stations by them in the wilderness, among the savage races that, during the latter half of the eighteenth century, occupied the Muskingum Valley, together with the narratives of the zealous, faithful labors bestowed upon them, and generally upon the surrounding tribes and pagan nations, may well be regarded, without drawing largely on the imagination, as one of the most interesting and romantic chapters in our early-time history. It is a chapter too, a few of whose crimsoned pages recite the saddest, bloodiest story that darkens our annals—a story that has ever attached shame and disgrace to the memory of the cruel perpetrators of the murder of unoffending Christian men, defenseless women, and innocent and helpless children! But it is a chapter also, a few of whose otherwise dark pages are made luminous by the heroic death of the murdered victims, murdered under circumstances of perfidy, cruelty, and appalling atrocity seldom paralleled, and who in their sad death well displayed the courage of innocence, and the calmness, resignation, and heroism inspired by true Christian principles!

THE PIONEER MISSIONARY.

Rev. Charles Frederick Post was the pioneer Moravian missionary to the Ohio Indians. He it was who made the preliminary movement among them which had in view their civilization and conversion from savagism to Christianity. With that high purpose he left his home in Bethlehem, Pennsylvania, in 1761, and visited the Delawares, then occupying the valley of the Upper Muskingum (now called the Tuscarawas), and then and there took the incipient steps in promotion of his object, by making their acquaintance, and by cultivating fraternal relations with them, and securing their confidence and friendship. He also built a cabin among them, which was situated within about a mile of one of their chief villages on the Tuscarawas River, named Tuscararatown, a

short distance south of the present northern boundary of Tuscarawas county. The building he erected stood in the immediate vicinity of the mouth of Sandy Creek, near the present village of Bolivar, and only a little way north of the line which divides Tuscarawas and Stark counties, on section twenty-five, in the township of Bethlehem, Stark county. A pile of stones, which probably formed the chimney of this early-time missionary's habitation, still indicated its site as late as the year 1843, when "Howe's Historical Collections of Ohio" first appeared. Some have held the opinion that this was the first house erected within the present limits of Ohio by a white man, but that is doubtless an error. The French, English, and American traders, years before, had built many huts, cabins, and trading stations; and so also had the French Jesuits erected buildings, at a prior date, along the Auglaize River, also on the banks of the Maumee, or Miami of the Lakes, as well as at or near Fort Loramie, on the portage between the Great Miami River and the southern tributaries of the Maumee.

After completing his building, this lone missionary of the West concluded that the next step in the preliminary measures looking to the civilization of the Indians on the Tuscarawas, and bringing them into the Christian faith, was to establish a mission school among them, and teach them to read the Scriptures in their own tongue. With this view this pioneer missionary returned to his home in Pennsylvania, to secure the services of an assistant who should devote his attention to the business of teaching the Indians and giving them suitable instruction; and in this he succeeded. John Heckewelder, then a youth of nineteen years, volunteered his services as a teacher, and was accepted; and on the 8th of March, 1762, the veteran missionary and his youthful companion started on their long horseback journey of thirty-three days, which they completed April 11th, by entering on that day the cabin built on the banks of the Tuscarawas River the previous year. But little, however, was accomplished by these missionaries during the summer, except to clear a plat of ground fifty yards square around their cabin (the Indians being unwilling to allow more), and raising corn and vegetables for their subsistence. The necessary absence of the senior missionary for a number of months, he having accepted the invitation of the Governor of Pennsylvania to meet in council at Lancaster, on the 27th of August, to hold a conference with some Indian tribes; the scanty supply of food, and difficulty of procuring it; the sickness of Heckewelder; the jealousy and hostility of the Indians, and other untoward circumstances, led to the abandonment of this missionary enterprise in October, 1762, when John Heckewelder returned to Bethlehem.

As the Rev. Christian Frederick Post made the first, although *unsuccessful*, attempt to establish a Protestant mission among the Ohio Indians, and as he never afterwards identified himself, in any manner, with our subsequent history, I deem this the proper place for a brief biographical sketch of this pioneer missionary. It was quite otherwise with his assistant, John Heckewelder. He intimately connected his name with our history by his personal presence for almost half a century (though not continuously) after his first arrival at the Tuscarawas River, in 1762, remaining in Ohio until 1810, and rendering himself pre-eminently useful in various prominent official positions; so much so, indeed, that his name continues to be a "household word" among us to the present day. I shall, therefore, omit a biographical sketch of him in this connection, but devote a few of the closing pages of this paper to giving him due prominence as one of the *founders of Ohio*.

Rev. Christian Frederick Post was a native of Conitz, in Polish Prussia. He came to America in 1742, and first exercised the functions of a Moravian missionary in 1743, having acquired some knowledge of the language of the Indians. A few years later he became an adept in the language of the Mohawks. While among them, in 1745, he was arrested as a spy, or rather for supposed sympathy with the French, and was imprisoned in Albany, at first, and afterwards in New York. After enduring many weeks of confinement in prisons, he and his companion and fellow-missionary, Rev. David Zeisberger, were discharged, as not guilty, after an examination by the Governor and his Council, and were permitted to return to Bethlehem, their home. He soon after joined a mission in Connecticut, and remained there until 1749, when he returned to Europe, where, however, he made but a short stay. After his return to America he labored as a missionary at Wyoming, until 1754, when he again went to Bethlehem, the Moravian "head-quarters."

In the summer of 1758, Rev. Mr. Post was appointed by the Governor of the Colony of Pennsylvania, as bearer of a message to the Delawares, Shawanese, and Mingoes, of the upper Ohio Valley. The object of the Governor was to persuade them to withdraw from the French interest, which they were promoting, and induce them to return to their allegiance to the English. The results were so satisfactory as to secure Mr. Post's services for the second time, on a similar mission to other tribes of Indians in the upper Ohio Valley, and on the tributaries of the Ohio River. He started on this second mission, October 25, 1758, and returned in January, 1759, having made a part at least of his homeward journey with the returning army of General Forbes, after the capture of Fort Duquesne. I have before me the journals, as written by himself, of these several visits

made by Mr. Post, and they show that he possessed considerable knowledge of the Indian character, and displayed a fair degree of ability as a diplomatist; his "talks" to the Indians being given, and the answers they made. These journals are important and valuable also for the intelligence they furnish of the condition and feeling of the Indians as between the French and English, and, incidentally, their relations towards the Americans also; and for the amount of geographical information they give, as well as the facts they state, touching the location of the various tribes of Indians; the names given by them to the various Indian villages, also to the streams and points of historic interest in the country claimed by them around the "Forks of the Ohio," now Pittsburgh.

Our veteran missionary (Rev. Christian Frederick Post), after his failure on the Tuscarawas, in 1762, turned his attention to other fields, first visiting Central America, and establishing a mission among the savages of Nicaragua.

On the marital relations of the subject of this sketch I may be indulged in some remarks. He first intermarried with Rachel, a Moravian Christian woman of the Wampanoag tribe, who died in 1747. His second marriage, which occurred in 1749, was with Agnes, a Delaware, who was also a Moravian Christian. She died in 1751. His third wife was a white woman. It may be remarked that these matrimonial alliances with Indian women (although they were sincere Christians of their own faith) were rather distasteful to the ruling authorities of the Moravian Church, and rendered Mr. Post somewhat unpopular, so that, failing to have their full, hearty, and official co-operation, he became an *independent* missionary, but still a Moravian in creed, opinion, and practice. His death took place at Germantown, one of the suburban villages near Philadelphia, and which subsequently became conspicuous as the site of one of the battle-fields of the Revolution.

FIRST PROTESTANT SERMON IN OHIO—1771.

In the spring of 1771, Rev. David Zeisberger, a Moravian missionary, who had devoted many years of his life to the religious instruction of the Indians east of the Alleghenies, visited the chief Delaware town in the Tuscarawas Valley, and there, in the house of Netawatwas, the principal chief of the Delawares, delivered a sermon, at noon, on the 14th of March, 1771, which was probably the first *Protestant* sermon preached within the present limits of Ohio. The Indian capital, in which this sermon was preached, occupied the suburbs of the present village of Newcomerstown, in Oxford township, Tuscarawas county. The proposition to establish a

mission among the Delawares in the Tuscarawas Valley met with such a degree of favor as to induce an effort, at an early day, by the zealous Zeisberger, who, after a stay of a few days devoted to missionary labors, returned to Friedensstadt (City of Peace), a Moravian town on the Beaver River (now in Lawrence county, Pennsylvania), where he had, during the previous year, established a mission.

SCHÖNBRUNN—1772.

In pursuance of the purpose formed in 1771, on his first visit to the valley of the Tuscarawas, Rev. David Zeisberger, in the early spring of 1772, again visited the capital town of the Delawares, to make arrangements with their principal chief, Netawatwas, for the organization of a Moravian church and mission station in said valley. His negotiations were eminently satisfactory, and the chief granted for the purposes of the mission, lands on the Tuscarawas River from the mouth of the Stillwater, extending northward for a number of miles towards the Tuscarara village, suggesting the Big Spring, two miles south of New Philadelphia as the most eligible site for both the mission church and Moravian village. The veteran missionary then returned to Friedensstadt, and in three weeks—that is, on the 3d day of May—he, with twenty-eight Moravian Indians, arrived at the Big Spring, and at once began the work of clearing the land, erecting houses, and building a church. The mission-house, or church, was completed on the 9th of June (though not dedicated until the 19th of September), by which time a number of dwelling-houses had been built and occupied. On the 26th of August a bell was put on the church, and was doubtless the first one in Ohio.

The village was called Schönbrunn (Beautiful Spring), and was soon occupied by more than two hundred Moravian Indians, chiefly from Friedenshütten (Tents of Peace), on the Susquehanna, in Pennsylvania, exclusive of the five families that came from Friedensstadt. The accessions, during the summer, of Indians from the Susquehanna Valley, led by Rev. John Ettwein, secured from Netawatwas, the liberal chief, an additional grant of land extending a number of miles down the Tuscarawas from the mouth of Stillwater. Rev. John Ettwein returned to his field of labor, but Rev. John George Jungman remained at Schönbrunn and labored there as a missionary with Rev. David Zeisberger, as did also, sometimes, Rev. John Heckewelder and others. Schönbrunn, before the year closed, contained more than sixty houses built of "squared timber"—also a school-house—besides huts and lodges. It was situated in the present township of Goshen, Tuscarawas county.

GNADENHUTTEN—1772.

Joshua, a Christian Indian, brought a party of Mohicans, on the 18th of September, 1772, to the Tuscarawas Valley, and on the 24th laid out a town on the west side of the river, four miles *above* Schönbrunn, calling it the "Upper Town." This location, however, was not satisfactory to Netawatwas, who induced a change to a place about eight miles *below* Schönbrunn, on the east side of the Tuscarawas River, where, on the 9th of October, the town of Gnadenhütten (Tents of Grace) was laid out by Joshua and his colony of Mohicans from Friedensstadt. It was within the present township of Clay, Tuscarawas county. The first sermon was preached there by Rev. David Zeisberger, October 17, 1772. In 1773 Friedensstadt, on the Beaver, was abandoned, the population being transferred to Schönbrunn and Gnadenhütten, adding thereby considerably to their inhabitants. Rev. John Roth, the resident missionary at Friedensstadt, accompanied them, and remained at Gnadenhütten from April 24, 1773, until about the middle of August, when he removed to Schönbrunn. John Lewis Roth, who is generally believed to have been the first white child born within the limits of Ohio, had his birth at Gnadenhütten, July 4, 1773, during the brief stay there of his parents, as above mentioned. During the latter part of this year, Rev. David Zeisberger, Rev. John Heckewelder, and Rev. John Roth were missionaries at Schönbrunn, and Rev. John George Jungman and Rev. John Jacob Schmick at Gnadenhütten.

Rev. John Ettwein, who conducted the Indians from the Susquehanna to Schönbrunn, in the Tuscarawas Valley, in 1772, was born in the Schwartzwald, in Germany, in 1712. In 1754 he emigrated to America, and served the church both in Pennsylvania and North Carolina. In 1764, he became a member of the Mission Board, and was consecrated a Bishop in 1784. He stood at the head of the church in Pennsylvania until his death, which occurred at Bethlehem, in said State, January 2, 1802. It does not appear that he ever visited the West, except in 1772. He was a zealous, faithful, good man, and eminently useful during his long and eventful life.

Rev. John Roth, who conducted an Indian colony from the Susquehanna Valley in 1772, to Friedensstadt, a Moravian village on the Beaver River, and who, the next year, went to the Tuscarawas Valley, was a native of Sarmund, a village in the Mark Brandenburg, Prussia, where he was born February 3, 1726. He settled in Bethlehem, Pennsylvania, in July, 1756, and three years thereafter (1759,) he became a Moravian missionary. He entered into the married relation with Maria Agnes Pfingstag, at Bethlehem, on the 16th of August, 1770. As already stated,

he, in June, 1772, accompanied some Christian Indians from the Susquehanna Valley to the west as far as Friedensstadt, where he remained until the next year, when he removed to Guadenhütten, reaching that village April 24, 1773. In August of this year he removed to Schönbrunn, and remained there until after the breaking out of the Dunmore war, in 1774, when he returned to Bethlehem, and was never again identified with the Tuscarawas missions. Soon after his return to Pennsylvania, he was called to serve the church at Mount Joy, and subsequently was Moravian minister at Emmaus, Hebron, and York, where he died July 22, 1791, and was buried at Bath, in said State. The son, John Lewis Roth, was educated at Nazareth Hall, being a member of the class of 1785, the first organized in that institution. He married, removed to Bath, where his father was buried, and died there on the 25th of September, 1841. His mother died at Nazareth, Pennsylvania, on the 25th of February, 1805.

Rev. John Jacob Schmick remained at Guadenhütten until August, 1777, and was succeeded by Rev. William Edwards. The former returned to Litiz, a small Moravian village in Lancaster county, Pennsylvania, where, for a few months, he served Bishop Hehl as an assistant, preaching in the United States Hospital, which had been established in that village. His death took place there January 23, 1778, in the sixty-fourth year of his age. He was born at Königsberg, in Prussia, October 9, 1714. He was an alumnus of the University of Königsberg, and was for a time a Lutheran minister in Livonia, where he became acquainted with the Moravians and adopted their faith, and, in 1748, united with them. Rev. David Zeisberger brought him across the Atlantic with him from Europe, in response to the call of the Missionary Board. He served various missions in Pennsylvania and elsewhere, and was generally held in high estimation for his scholarship, and for his many admirable qualities of head and heart. He possessed the high moral virtues that characterized so generally the Western Moravian missionary.

LICHTENAU—NEW SCHÖNBRUNN—SALEM.

Such was the degree of prosperity that had attended Schönbrunn and Gnadenhütten, that their joint population aggregated, at the close of the year 1775, upwards of five hundred. The establishment of a third mission station in that valley was, therefore, taken into consideration early in the year 1776. Revs. David Zeisberger and John Heckewelder, with eight families, numbering thirty-five persons, with a view of building another Moravian town, encamped, on the 12th of April, 1776, on the site of the future village, two miles or more below the junction of the Tusca-

rawas and Walhonding Rivers (now Coshocton,) on the east bank of the Muskingum River. A mission house was soon built, which, until the erection of a chapel, served as a place of worship. The new town, called Lichtenau (Pasture of Light), was situated in the present township of Tuscarawas, in Coshocton county. It had a rapid growth for several years, having had a considerable accession, in April, 1777, from Schönbrunn, when, owing to a combination of causes, that hitherto prosperous mission station was abandoned! High hopes of Lichtenau were cherished until early in 1779, when some hostile Wyandot and Mingo warriors, having made it a rendezvous and the starting-point for a new war-path to the Ohio River; and one or two of the surrounding tribes becoming more and more unfriendly, its abandonment was soon determined upon, which was gradually accomplished. Rev. William Edwards, one of the missionaries, in April, 1779, left Lichtenau and moved up the Tuscarawas River to Gnadenhütten. During the month of December, 1779, Rev. David Zeisberger left with another colony, and passed up the Tuscarawas to a point a short distance above Schönbrunn, and commenced building a town, to which was given the name of New Schönbrunn. It was situated a mile or more below the present town of New Philadelphia, in what is now Goshen township, Tuscarawas county. And in the spring of 1780, Rev. John Heckewelder, with all the Christian Indians that remained at Lichtenau, left it and started the town of Salem, on the west bank of the Tuscarawas, about six miles below Gnadenhütten. Its site was in the present township of Salem, Tuscarawas county, about sixteen miles below the county seat of said county. The chapel here was dedicated on the twenty-second of May, 1780, and in it Rev. John Heckewelder and Sarah Ohneberg, a mission teacher, were united in marriage July 4, 1780, and which was probably one of the first weddings of white people within the present limits of Ohio, Rev. Bernard Adam Grube, a veteran missionary, then temporarily in the West, being the officiating minister. He was born in 1715, near Erfurt, Germany, and died at Bethlehem, in 1808, at the age of ninety-three years.

Rev. Gottlob Senseman, a missionary from Pennsylvania, arrived during the year 1780, and was assigned to duty at New Schönbrunn. And during the autumn of this year, Rev. Michael Jung arrived, and became the assistant missionary at Gnadenhütten, Rev. William Edwards being the principal. Rev. David Zeisberger was superintendent of all the Tuscarawas Valley stations, and itinerated constantly from church to church.

THE PERILS OF THE MORAVIANS.

Unavoidable complications growing out of the Revolutionary war, as well as out of the border warfare between the white settlers east of the

Ohio River, and the Indian tribes west of it, and, incidentally, other causes, soon produced a condition of things unfavorable to their growth and success, and tended to render the Moravian settlements in the Tuscarawas Valley of quite uncertain duration. Their annals show that they were, thus far, anything but permanent, and were equally transitory afterwards, as their subsequent history clearly shows. Certainly the history of the Moravian mission in the Tuscarawas Valley well illustrates the mutability of human affairs! They were the victims of circumstances untoward in their nature, and in a great measure uncontrollable, and before which these mission stations soon succumbed, for a time at least. Their location, in the then warlike state of affairs, was exceedingly unfavorable to them. They were situated, unhappily for them, between the British post at Detroit, and the American or Colonial military post at the "Forks of the Ohio," now Pittsburgh; and, on the other hand, these doomed villages were situated between the hostile Wyandots and other tribes on the Sandusky Plains, and in the valley of the Sandusky River, and the frontiersmen east of the Ohio River in Western Virginia and Pennsylvania. Between the British at Detroit, and the Colonists at Pittsburgh, a state of war existed, and had existed for years between the governments they respectively represented. So, also, there existed feelings of intense hostility between the savage Sandusky tribes and the white settlers east of the Ohio River. Being thus situated between four hostile parties, it will be seen at a glance how difficult it was for the missionaries and their converts to maintain a position of strict neutrality towards all these respective combatants, and avoid all suspicion of aiding one or the other of those contending factions. As friends of peace, the Moravians were disposed, not only from principle and inclination, but from motives of interest also, to maintain the position of neutrals between the aforesaid antagonistic parties; but such was their unfortunate location, and such the unfriendly circumstances by which they were surrounded, that suspicions of treachery towards one party or the other, seemed almost unavoidable, however well they maintained their attitude of neutrality. The combination of circumstances was such as to bring censure upon them, now by the British emissaries for favoring the cause of the Colonists, and then by the Colonists for favoring British interests; and again, by the frontier settlers for favoring the Sandusky savages, and then the latter would charge treachery upon them for giving "aid and comfort" to the frontiersmen! Thus the exceeding perilousness of the condition of Moravian interests in the Tuscarawas Valley can be readily seen. *The crisis came in the autumn of 1781.*

THEIR CAPTURE AND REMOVAL TO SANDUSKY.

The missionaries were charged with being spies and having held treasonable correspondence with the Americans at Pittsburgh, and perhaps at some other points. Upon this charge, the missionaries and all their Christian converts in the Tuscarawas Valley, were arrested by Captain Matthew Elliott, a British emissary, who had under his command about three hundred hostile Indians. They, making no resistance, were made captives, September 11, 1781, and, by an overpowering force, compelled to leave their much loved homes and take up the line of march for the Sandusky River, which they reached on the first day of October, after a journey of twenty days of great privations and much suffering. The missionaries that were thus forcibly removed, were Revs. Zeisberger, Senseman, and Jungman, of New Schönbrunn; Revs. Heckewelder and Jung, of Salem; and Rev. William Edwards, of Gnadenhütten. The point at which they were left to take care of themselves, their wives and children, and Indian captives, was on the banks of the Sandusky River, not far from where the Broken Sword Creek empties into it, about ten miles from Upper Sandusky. They at once proceeded to look up a location, and without delay built a village of small huts to protect themselves against the inclemency of the weather. This village, which soon took the name of "Captives' Town," was situated on the bank of the Sandusky River, probably a mile above the mouth of the Broken Sword, in the present township of Antrim, Wyandot county.

TRIAL AND ACQUITTAL OF THE MISSIONARIES.

On the 14th of October the missionaries were summoned by the British commandant at Detroit, to appear before him for trial. Accordingly, on the 25th of October, Revs. Zeisberger, Heckewelder, Senseman, and Edwards started for Detroit, to meet the charges against them. They traveled across the Black Swamp to the Maumee River, and from thence to Detroit, where they arrived after a weary journey of many days. Soon after their arrival they were ushered into the presence of Major De Peyster, the commandant, who at once entered into a colloquy with them touching the charges that had been lodged with him against them. They were treated well, and had a final hearing on the 9th of November, when they were discharged by the commandant, pronounced *not guilty*, and permitted to return to their families and friends on the Sandusky, whom they rejoined on the twenty-second of November.

CAPTURE AND IMPRISONMENT OF SCHEBOSH AND HIS PARTY.

On the day the missionaries started for Detroit, Schebosh, a native assistant missionary, organized a force at "Captive's Town," of Moravian

Indians, to go to the Tuscarawas towns, to gather some of the corn they had raised there during the preceding summer, with which they intended to return to Sandusky, and thus save their suffering friends there from perishing. They were captured, however, by a party of Americans, commanded by Col. David Williamson, and held as captives for a time at Pittsburgh, whither they were taken. The object of this expedition of Col. Williamson, in the autumn of 1781, was to remove all the Moravian Indians they could find on the Tuscarawas, to Pittsburgh, under the belief that they had not kept faith with them as against the hostile Sandusky savages; but they found themselves anticipated in the inglorious achievement of breaking up the mission, that having already been accomplished by the British.

A small church edifice was erected for worship in "Captive's Town," before winter (which proved to be one of great severity) had fully set in. It was built of small logs, the spaces between them being filled with moss, and was completed December 8. Many privations and great sufferings were endured, especially by the women and children, because of the severity of the weather and scarcity of provisions. For the purpose of relieving the sufferings of these poor, starving Indians, it was decided to make one more effort (that of Schebosh having failed) to procure some corn from the Tuscarawas valley, thousands of bushels of which, of their own raising, still remaining on the stalks there, and from which, during the preceding autumn, they were forcibly driven by the British emissary, Elliott. In pursuance of this purpose, about one hundred and fifty of them, embracing men, women, and children, left "Captive's Town" late in February, to go to their corn-fields on the Tuscarawas, to gather the corn they had raised. On their arrival they divided their forces about equally between the three villages, and proceeded at once, with energy, to gather the corn and make a speedy return to Sandusky with it for the relief of their captive friends there, who were threatened with starvation. But in this noble enterprise they were defeated, and sad, sad was the fate of about two-thirds of those who had volunteered in the good work of ministering to the imperiled and suffering christian captives in the valley of the Sandusky.

THE CAPTURE AND MASSACRE.

Allusion has been made to the unfortunate location of the Moravian mission stations on the Tuscarawas—unfortunate in relation to the American military post at Pittsburgh and the English military post at Detroit—and equally unfortunate as between the frontier settlers east of the Ohio and the hostile and vindictive savage enemies of the whites on

the Sandusky. The latter, in making their marauding and murderous incursions beyond the Ohio River, would frequently halt at the Moravian villages and partake of their hospitalities; and likewise on their return with their captives and property stolen from the white settlers, a similar halt was made, if they supposed that they were not closely pursued. It is quite probable some of this stolen property was left with the christian Indians, either carelessly or in payment of supplies obtained from them. The hospitalities above mentioned were virtually *enforced*—were bestowed of necessity—in order to ward off the suspicion and hostility of the savages. It was *compulsory* kindness, bestowed, as is alleged, for self-protection, and was extended in equal measure, and under similar restraint, and for the same purpose, upon the whites as upon the Indians. The latter, failing to secure the cooperation of these christian Indians in their war movements against the whites, charged them with being in sympathy with their enemies, the frontiersmen east of the Ohio River; and the latter were no less disposed to suspect them of treachery, because they would not make common cause with them against their enemies on the Sandusky. The aforesaid enforced acts of hospitality and kindness were alleged as proof of the correctness of their suspicions; and these suspicions were further strengthened by the fact that during a season of pleasant weather, early in February, some war parties, probably from the Sandusky regions, had made raids into the white settlements and committed various thefts and some murders—among the killed being the family of William Wallace, consisting of his wife and five children; and they also carried John Carpenter into captivity at the same time. The early period in the season when those Indian visitations were made and outrages committed, induced the belief that the murderers of the Wallace family and the captors of Carpenter were the Moravian Indians or others who had received “aid and comfort” from them while on their murderous raid. In either case, the frontiersmen determined to hold the christian Indians of the Tuscarawas responsible for the atrocities perpetrated, and inflict chastisement upon them; and for this purpose they proceeded to organize an adequate force of mounted men and move with all practicable celerity to the Tuscarawas Indian villages, they having heard of the return there of a considerable number of their former occupants, for the avowed object of gathering corn.

The force, consisting of about ninety men, that charged itself with the duty of capturing and punishing those christian Indians, at work in their own corn-fields, from which they had been driven the preceding autumn, rendezvoused, early in March, 1782, at Mingo Bottom (three miles below the present city of Steubenville), under the command of Col.

David Williamson. Rev. Dr. Joseph Doddridge, in his "Indian Wars," speaking of Col. Williamson's men, says that "they were not vagabonds or miscreants, but many of them were men of the first standing in the country." On the night of the 5th of March, "this corps of volunteer militia" arrived within a mile of Gnadenhütten, the middle one of the three Indian villages (New Schönbrunn being above it and Salem below), where they met Schebosh, a half-breed Indian convert, and a man of consideration among them, and deliberately, and in cold blood, killed him. And on reaching the village they murdered another man; also a woman. By treacherously promising protection, they disarmed the Indians at Gnadenhütten, and likewise those at Salem, whom they brought to the first named place. Col. Williamson and his militia having by falsehood and deceit obtained entire control of these now defenseless christian Indians, they fettered them, and confined them in two well guarded houses. Thus shamefully and treacherously were more than ninety Moravian Indians inveigled to their destruction, many of whom being helpless women and children. And the number would have been increased by about fifty, if the "militiamen" had succeeded in capturing those at New Schönbrunn, which they attempted, but in which they were happily foiled. Suspecting treachery and a murderous intent, those at the latter place, on hearing of the capture and imprisonment of their brethren at the two other villages, made their escape barely in time to avoid capture.

Col. Williamson submitted the fate of his helpless and, as I think, innocent captives to his men for decision, the alternative being to take them as prisoners to Fort Pitt, or to butcher them! The latter method of disposing of them prevailed by a large majority, only *eighteen* men of the entire command favoring the proposition of dealing with them as prisoners! "*And they were then and there, March 8, 1782, murdered in cold blood!*" "With gun and spear, and tomahawk and scalping-knife, and bludgeon and mallet, the wholesale, brutal murder of these peaceable, innocent, defenceless people was accomplished!" "The work of death progressed in these slaughter-houses," says Howe, "until not a sigh or moan was heard to proclaim the existence of human life within!" The torch was then applied to those prison houses of woe and death, and, with ninety-four murdered Indian bodies, consumed! Two, and only two, of the whole number of captives, in some extraordinary, if not miraculous manner, escaped with their lives. The story of the deliverance of two Indian boys, notwithstanding one of them, named Thomas, was knocked down and scalped, has been often told, and need not be repeated here; suffice it to say, that they lived many years, to bear testi-

mony, in after times, to the savage cruelty of the men of Col. Williamson's command towards the Moravian Indians they so cruelly murdered.

The Moravian historian, Loskiel, details at length the story of this atrocious massacre, and characterizes it as "the most infamous act in the border wars of the west," and as "the most disgraceful event in the history of the country."

Rev. Dr. Doddridge, in his account of what he calls the "Moravian campaign," unhesitatingly pronounces this act of the "militia" as an "atrocious and unqualified murder." And it does indeed make for us the darkest, cruelest, bloodiest page in the history of the north-west "A terrible tragedy," another historian calls it. "Over this horrid deed," says another, "humanity must shed tears of commiseration as long as the record of it shall remain."

The incidents of this butchery are so revolting, that I have purposely refrained from giving the details of the infamous outrage at any considerable length. Would that the chapter which relates the events of the expedition of Col. Williamson to the Indian towns in the Tuscarawas Valley could be torn from our country's history; but, to our great mortification, that cannot be done. The record of that murder is "a ghost that will not down at our bidding."

The historian of Western Virginia and Pennsylvania (Rev. Dr. Joseph Doddridge) was personally acquainted with Col. Williamson, and in his "Indian Wars" pronounces him to have been "a brave, humane man, and not cruel." He says by way of mitigation, that as "Col. Williamson was only a militia officer, he was without power to prevent the murder of those christian Indians, against the decision of so large a majority (about four to one) of self-willed, determined, vindictive men, who had recently been greatly exasperated by the horrible murder, by Indians, of the Wallace family." His strong desire was, says Doddridge, to treat the Indians as captives, and remove them as prisoners to Pittsburgh, but was unable to enforce his wishes, and that therefore "his memory rests under *unmerited* obloquy." Whether justly or unjustly, Col. Williamson has borne much of the responsibility of the massacre of the Moravian Indians of the Tuscarawas Valley. It will, however, be an act of justice to his memory to state that he did not lose standing with his countrymen on account of his connection with the expedition or command which committed these outrageous murders, as not long thereafter they gave him undoubted evidence of their continued confidence and regard by elections to positions of honor and responsibility, civil as well as military.

It is highly probable that a majority of Colonel Williamson's militia-

men did not set out on their expedition with the purpose of murdering the Moravian Indians, but simply to take them prisoners, although the killing of Schebosh before reaching Gnadenhütten, and two others soon after entering the village, shows that some of them at least were bent on murder! Having, however, had their feelings greatly outraged by the then recent murder of the Wallace family, and dwelling on the outrage as the theme of their conversation on their march, they naturally became more and more sanguinary and vindictive in their temper as they progressed in their expedition. And it has been further proclaimed in mitigation of their brutality, if not in justification of it, that they found the dress of Mrs. Wallace, still bloody, at one of the mission towns, and thereupon rashly, illogically, insanely rushed to the conclusion that those with whom that dress was found were the murderers of the Wallace family, and that then, in the execution of the afterthought, they decided upon the commission of the brutal murder of innocent *women* and *children*, whatever might be believed as to the guilt of the *men* they massacred.

But the charge of murder against the Moravian Indians was undoubtedly an act of great injustice to them. Their guilty participation, directly or indirectly, in the murder of any white persons has never been established. Rev. Dr. Doddridge says that the charge of complicity by the Moravians with the hostile Indians in the murder of the families of the western frontiersmen, and which served as a pretext for their destruction, "was utterly false." It has always been the judgment of the public that the seventy men, or thereabouts, of Colonel Williamson's command who voted in favor of killing ninety-six Moravian Indians at Gnadenhütten, on the Tuscarawas River, March 8, 1782, were guilty of an atrocious murder! So say the general public, and so saith all reliable history!

CAPTIVE'S TOWN ABANDONED IN 1782

Owing to the hostile feelings of the tribes in the Sandusky region towards the remnant of Moravian Indians at "Captive's Town," it was deemed necessary to abandon it and seek a location elsewhere. To return to the Tuscarawas Valley was not to be thought of, as Col. Williamson's men had burnt all their habitations in the villages before leaving them. And if that had not been done, the British commandant at Detroit would not have permitted it, first, for State reasons, and secondly, because it would have been construed to mean a defiant menace, and have inevitably led to their extermination. Said commandant (Major De Peyster) generously tendered them aid and encouragement, provided they would establish a mission station on Huron River (now called

Clinton). They, after due deliberation, accepted of his proposition, and commenced a settlement on said river, about thirty miles north of Detroit, July 21, 1782, calling the village New Gnadenhütten. The missionaries and their families left Captive's Town in the spring, upon the invitation of Major De Peyster, and reached Detroit May 10, 1782, where they remained until their removal up the Huron or Clinton River, in July, as above stated. Many of the Indians at Captive's Town had found it necessary to disperse during the winter to procure food; others probably relapsed into heathenism under the pressure of surrounding circumstances; still others probably were unwilling, for various reasons, to go with their brethren to the Huron River, so that the remnant of christian Indians on the Sandusky, after the murder of ninety-four of them on the Tuscarawas, was comparatively small. The few that remained at Captive's Town after the departure of the missionaries and their families and converts for Detroit, about the last of April, were driven out and dispersed by order of Captain Pipe, a Delaware chief of the Wolf tribe, who was an unrelenting enemy of the Moravians. Henceforth for four years (from 1782 to 1786) no Moravian mission station existed within the present limits of Ohio.

Of the six Moravian missionaries who were removed to Sandusky in 1781, and who went to Detroit in May, 1782, Rev. John George Jungman was the only one who never afterwards identified himself with any missions among the Indians of Ohio. He was born April 19, 1720, at Hockenheim, in the Palatinate. In 1731, he emigrated to America, and settled near Oley, in Pennsylvania, where he became acquainted with the Moravians and united with them. After his arrival at Detroit in May, 1782, he returned to Bethlehem, Pennsylvania, where he died, after a long retirement from active service, July 17, 1808, in the eighty-ninth year of his age.

PILGERRUH MISSION, FOUNDED IN 1786.

The Pilgerruh Mission, known also as "Pilgrim's Rest," was established in the summer of 1786, on the east bank of the Cuyahoga River, in what is now Independence township, Cuyahoga county, distant from the mouth of said river (now Cleveland) ten or twelve miles. The colony was led from the vicinity of Detroit by Revs. Zeisberger, Heckewelder, and Edwards, and was composed chiefly of those who were captured by Matthew Elliott, at the Tuscarawas villages, in 1781, and who had lived principally, since that time, at New Gnadenhütten. Pilgrim's Rest was not intended to be a permanent mission, but only a stopping-place for a year or two, with the purpose of an early removal to their former localities in the Tuscarawas Valley. Soon huts were built and corn was planted, the

mission being located upon the site of an old abandoned village of the Ottawas, the land being therefore cleared, so that by the last of June they were in comfortable habitations. A chapel was also erected, and dedicated on the 10th of November.

A resolution was adopted by Congress, on the 24th of August, 1786, inviting the remnant of the expatriated or exiled Moravian Indians of the Tuscarawas to return to their former homes, guaranteeing them the protection of the government, and tendering to them, at the same time, a quantity of corn, as well as blankets, axes, and hoes, as a donation. But the opposition of certain Indian tribes to their return to their former villages was so manifest, that they decided to seek another home, and not, for the present at least, (notwithstanding the generous legislation of Congress in their behalf,) attempt to return to the Tuscarawas Valley. They stood firm in their decision to abandon "Pilgrim's Rest," however, and locate elsewhere. Accordingly on the 19th of April, 1787, the colony, under the leadership of Rev. Zeisberger, took up their line of March westward towards the Pettquotting, now called Huron River, which empties into Lake Erie at the town of Huron, in Erie county, though Black River was their destination at first, but, on arriving there, circumstances seemed not to favor it as a mission station.

NEW SALEM, FOUNDED IN 1787.

New Salem was established on the east bank of the Huron River, a few miles from its mouth, in the present township of Milan, in Erie county, in the spring of 1787, by the colony from "Pilgrim's Rest." There some old, but then unoccupied plantations, were found, and upon which they built "New Salem." The chapel was erected and occupied in June, and the village and mission soon enjoyed a good degree of prosperity. Revs. Zeisberger, Edwards, and Jung were the principal missionaries at this new station, at the beginning, but Rev. Gottlob Senseman joined it afterwards, in the year 1790. That was the year of its greatest prosperity, the congregation then numbering two hundred and twelve persons. But an impending Indian war rendered the condition of the mission precarious, a war which culminated, for this year at least, in the defeat of General Harmar, at the junction of the St. Mary's and St. Joseph's, (now Fort Wayne,) in October, 1790. The continued existence of Indian hostilities rendered it inexpedient to remain much longer at New Salem. It was, therefore, resolved to abandon it early in 1791, which was accordingly done in April of said year, the mission being removed to the Canada side of the Detroit River, and established, by invitation of their owners, on lands belonging to Elliott and McKee, both of whom had been their bitter enemies. They called this mission the Watch-Tower.

Rev. Gottlob Senseman, after the abandonment of New Salem, in 1791, was never afterwards connected with Moravian Missions among the Ohio Indians. He was, however, identified with other missions, principally in Canada, the last of which was at Fairfield, situated on the right bank of the river Thames, in the present township of Oxford, Canada West, where he deceased January 4, 1800.

Rev. Michael Jung was a native of Engoldsheim, Province of Alsace, Germany, where he was born January 5, 1743. He came to America in 1751, and settled at Broadbay, in Maine, where he joined the Moravians. He removed to Bethlehem, Pennsylvania, in 1767, where he qualified himself for the ministry, and commenced his missionary labors in 1780, in the Tuscarawas Valley, and continued to exercise his ministerial functions at various points for the period of thirty-three years. In 1813, he retired to Litiz, a Moravian town in Pennsylvania, where he died December 13, 1826, at the advanced age of almost eighty four years. New Salem was the last mission to which he was attached within the present limits of Ohio.

RE-ESTABLISHMENT OF TUSCARAWAS MISSIONS.

For various reasons there were no Moravian Missions within the present limits of Ohio from the spring of 1791, when New Salem was abandoned, until the location and building of the village of Goshen and the rebuilding of Gnadenhütten, both in the Tuscarawas Valley, in the year 1798. The colony that entered upon this enterprise was under the direction of Revs. Zeisberger, Mortimer, Heckewelder, and Edwards, and was composed chiefly of christian Indians from the Fairfield Mission, on the river Thames, in Canada. The two last named located themselves and a portion of the colony before midsummer upon the site of Gnadenhütten, where Rev. John Heckewelder had a house built, which was finished and occupied September 9, 1798. The two first named arrived in October, 1798, and built the village of Goshen upon the old Schönbrunn tract, on the west bank of the Tuscarawas River, seven miles above Gnadenhütten, in the present township of Goshen, Tuscarawas county, about two miles below New Philadelphia.

Rev. John Heckewelder was no longer a missionary proper, but made Gnadenhütten his headquarters as "Agent of the Society for Propagating the Gospel." This was a Moravian organization incorporated by "Act of the Pennsylvania Legislature," for the purpose implied in its title. Congress had invited the Moravians to reestablish their mission in the Tuscarawas Valley, and had donated to them twelve thousand acres of land to aid in the work of Indian civilization and evangelization. Four thousand acres were surveyed so as to include the old Schönbrunn village site,

four thousand to include Gnadenhütten, and the remaining four thousand to embrace Salem. These several tracts were conveyed to the aforesaid society, in trust, for the purpose of propagating the gospel among the heathen on the Tuscarawas, or rather as the act of incorporation expresses it, "for civilizing the Indians and promoting Christianity among them." Said society, of which Bishop Ettwein was the president, appointed Rev. John Heckewelder its agent, in 1788, to execute the trust in accordance with the terms of the grant, which remained in a state of abeyance until 1798, when, for the performance of his duties as agent, he made his residence at Gnadenhütten, as above stated. The foregoing tracts of land were surveyed, pursuant to an act of Congress bearing date June 1, 1796, although several "Acts of Congress" had been previously passed, pledging the government to grant donations of land to the Moravians in the Tuscarawas Valley. These several "Acts" bear date May 20, 1785; July 27, 1787; and September 3, 1788. These lands were under the superintendence of Rev. John Heckewelder, who, as agent, leased and managed them in the interest of the Tuscarawas Mission, embracing the two stations of Goshen and Gnadenhütten, from 1798 until 1810.

These two Moravian villages met with various successes and reverses. Soon the whites settled around them; some as lessees upon their lands, whose influence generally was pernicious upon the weak, half-disciplined Moravian Indians. They introduced ardent spirits among them, although the Territorial Governor and Judges had passed a law, in answer to petitions from Revs. Zeisberger, Heckewelder, and Mortimer, granting them the power of prohibiting its sale and use. Other vicious habits of the whites were gradually adopted, in spite of the efforts and restraining influence of the missionaries. Some of the converts, yielding to the malign influences to which they were subjected, fell into evil ways, and some even lapsed into heathenism, and became castaways. The missionaries grew old, and lost in a measure their influence with their proselytes, being unable to give them the requisite personal attention. Gradually the number of Indians in these villages diminished by deaths, removals westward, and by the encroachments and demoralizing influence of the white settlers. At length there were few or no Indians, outside of these villages, to proselyte, by reason of their removal westward. Meantime, the age, debility, and ultimately the death of the most influential and successful missionaries was felt as a serious calamity, and greatly retarded their prosperity. Thus matters gradually progressed from bad to worse, evidence of the decadence and ultimate extinction of these Moravian Christian Missions becoming more and more manifest every year, until the final removal from the valley, in 1824, of the Moravian Indians, the last little remnant of them then joining the Fairfield Mission in Canada.

DEATH OF PROMINENT MISSIONARIES.

Mention has been made of the death of some influential missionaries, as one of the causes of the declension and abandonment of the Tuscarawas mission stations. Rev. William Edwards's death occurred at Goshen, October 18, 1801; and that of the veteran Zeisberger, at the same place, November 17, 1808. The former was a native of Brinkworth, Wiltshire, England, where he was born, April 24, 1724. He joined the Moravians in 1749, and came to America, where he closed his useful life, after long and efficient missionary services among the Indians, at the age of more than seventy-seven years. Rev. David Zeisberger, of whom a more extended memorial sketch will be given, died at the age of more than eighty-seven years.

RE-ESTABLISHMENT OF NEW SALEM MISSION, IN 1804.

In the autumn of 1803, Bishop Loskiel, the eminent Moravian historian, made an official visit to the Tuscarawas Mission, and held a conference with the missionaries, at Goshen, from October 10th to the 21st, at which it was decided to re-establish the New Salem Mission, on the Huron River, which had been abandoned in 1791. In pursuance of this purpose, Rev. Mr. Oppelt and Rev. John Ben Haven removed a fragment of christian Indians from Fairfield, in Canada, to the Huron River, in the spring of 1804, and located them near or on the site of New Salem, within Milan township, Erie county. According to some authorities, Rev. Christian Frederick Dencke superintended this mission. But small success attended the enterprise, however, and it had a brief career, the little remnant of converts soon removing to some point on the Sandusky River, from which they not long after finally scattered.

Rev. George Henry Loskiel, author of a "History of the Missions of the Moravians among the American Indians," was born November 7, 1770, at Angermünde, in Curland, and came to the United States in 1802, having been, during that year, consecrated a Bishop. He became a Moravian in 1759, was appointed superintendent of the mission in Livonia, in 1782, and occupied other positions of responsibility. His history of the Moravian missions in America was published in London, in 1794. His death took place at Bethlehem, Pennsylvania, February 23, 1814.

OTHER TUSCARAWAS MISSIONARIES.

Rev. Benjamin Mortimer remained a missionary at the Tuscarawas Mission, from 1798, until after the death of the venerable, patriarchal Zeisberger, in the year 1808, and subsequently became the pastor of a Moravian church in New York city, where he died, November 10, 1834. He was a native of England, and was a minister of character and talents.

Rev. Lewis Huebner was a missionary on the Tuscarawas in the year 1800, and for a number of years thereafter, probably until 1805. He was a native American, born at Nazareth, Northampton county, Pennsylvania, August 8, 1761, and was educated in his native town.

Rev. John Joachim Hagen became one of the missionaries at Goshen, in 1804.

And Rev. Abraham Luckenbach ministered to the Moravian Indians on the Tuscarawas, until the final abandonment of the mission and the dispersion of the converts in 1824. He was born May 5, 1777, in Lehigh county, Pennsylvania, and was educated at Nazareth, where he was a teacher in 1797. He became a missionary among the Indians in the year 1800, and served as such, at various missions, for forty-three years, when he retired to Bethlehem, Pennsylvania, where he died, March 8, 1854, having attained to the age of almost seventy-seven years.

REV. DAVID ZEISBERGER—REV. JOHN HECKEWELDER.

Before giving the details of the final termination of the Moravian mission stations in the Tuscarawas Valley, I may be permitted to give more extended biographical or memorial sketches of two of the most distinguished of the missionaries (Revs. Zeisberger and Heckewelder) that were connected with them. So long, so intimately, so conspicuously were they identified with them, that biographical sketches of them amount substantially to a history of those mission stations. "More abundant in labors" were they than all others; from the infancy of those missions until they reached the period of their decadence, were they with and of them; and so zealous and faithful were they, so devoted to their high calling as to be, pre-eminently, *the* missionaries to the Indians of the "Upper Ohio Valley." The last named, Rev. John Heckewelder, came to the Tuscarawas Valley in 1761, and did not finally leave it until 1810, covering a period, with some long intervals of absence, of forty-nine years; and the former, Rev. David Zeisberger, first came in 1772, and died there in 1808, a period of thirty-six years, including some intervals of absence also. So eminent had they become, by reason of their early-time arrival and their long continued services; and such, indeed, was their intimate identification with our pioneer history, in fact were "parts and parcels of it," to a large extent, that, in the opinion of many, they share, by no means inconsiderably, with others in the honor of being *the founders of our State*.

They were both scholarly men, familiar with several of the modern languages, and spoke a variety of Indian dialects fluently, and were also voluminous writers. Their acknowledged ability and talents, and their

undoubted and well merited claims as "men of letters," gave them a place in the fore-front, and secured them more than an ordinary degree of influence, not only as missionaries, but also as authors and civilians.

REV. DAVID ZEISBERGER.

Rev. David Zeisberger was born in a small village named Zauchtenthal, Moravia (now on the railroad from Cracow to Vienna), on Good Friday, April 11, 1721. His parents were believers in and followers of the distinguished Bohemian reformer, John Huss. They removed to Hernhut, the chief seat of the Moravians in Europe, in 1726, and came to America in 1736, and settled in Georgia. They, however, left their son David at Hernhut, to finish his education. He was an apt scholar, "learning Latin with the facility that he afterwards displayed in acquiring a knowledge of the Indian languages." Soon after he was fifteen years of age, he was taken to Holland by Count Zinzendorf, where he soon learned the Dutch language, spoken by the Hollanders. When he was seventeen he embarked at London for the New World, and soon joined his parents.

David spent several years in Georgia and South Carolina, and in 1740 went to Pennsylvania. In 1741 the village of Bethlehem, Pennsylvania, was commenced, and he early identified himself with it, which soon became, and has ever since remained, "the chief seat of the Moravian Church in America." There his father died in 1744, and his mother in 1746.

David soon developed a character for courage, talents, energy, resolution, and self-abnegation that marked him as one adapted to the missionary service among the aborigines of this country. In 1744-45 he devoted himself to the study of the Indian languages, first at Bethlehem, then in the Mohawk Valley, where he perfected himself in the Mohawk tongue. Here he came under the suspicion of being a spy, and suffered imprisonment both in Albany and New York, but, being found innocent, was discharged. Not long afterwards he was selected as the associate of Bishop Spangenberg, to make negotiations with the Iroquois Confederacy, in regard to the transfer of the Shekomeko Mission to the Wyoming. He impressed the Onondagas so favorably, that they adopted him into the Turtle Tribe of that nation, and gave him an Indian name. He made extensive explorations of the Susquehanna and its branches, acting as an interpreter frequently, and serving as assistant missionary at Shamokin.

Rev. David Zeisberger was ordained to the ministry at Bethlehem, February 16, 1749, and at once proceeded to minister to the Shamokin Mission, which was situated near the present town of Sunbury, Penn-

sylvania. In 1750 he made a voyage to Europe in the interest of American missions, returning in the following June. He made frequent visits to the Onondagas, to Wyoming, to New York, to New England, and various other places, always to promote the welfare of existing missions, or to establish new ones. He also attended the treaty held with the Indians, at Philadelphia, in 1756; at Easton, in July, 1757; and again in October, 1758. In 1759 he journeyed as far south as North Carolina, and in 1760 he was appointed superintendent of the Brethren's House, at Litiz, where he remained more than a year. In August, 1761, he was interpreter at another general congress held with the Indian tribes at Easton.

Rev. David Zeisberger thus continued to make himself useful in the various capacities of interpreter, missionary, treaty negotiator, instructor, and superintendent, until 1772, when we find him established at Schönbrunn, in the Tuscarawas Valley, from which time the details of his career have already been given in this paper. He visited Pennsylvania in 1781, and entered into the married relation with Susan Lecron, of Litiz, a Moravian village in Lancaster county, June 4, 1781, the venerable missionary, Rev. Bernard Adam Grube, performing the marriage ceremony, he who had rendered a similar service for Rev. John Heckewelder the previous year.

I have made mention of Rev. David Zeisberger as an author, and name the following as a partial list of his works:

1. "Essay of a Delaware Indian and English Spelling Book, for the use of the Schools of the Christian Indians on the Muskingum River." Published in Philadelphia, 1776. A second edition appeared in 1806.

2. "A collection of Hymns for the use of the Christian Indians of the Moravian Missions in North America." Published in Philadelphia, in 1803. This was a volume of 358 pages. A second edition was issued, in an abridged form, in 1847, under the editorship of Rev. Abraham Luckenbach, of Bethlehem, where the second edition was published.

3. "Sermons to Children." This was a translation from the German into the Delaware, and was issued in Philadelphia in 1803.

4. "Something of bodily care for Children." This, also, is a translation from the German of Bishop Spangenberg, into the Delaware, and has been bound into one volume with the "Sermons to Children," the two making a book of 115 pages.

5. "The History of our Lord and Savior Jesus Christ." This also is a translation from the German of Rev. Samuel Lieberkühn, into the Delaware Indian language, and makes a volume of two hundred and twenty-two pages. It was printed in New York, in 1821. It is supplemented with an "Address of the late Rev. David Zeisberger to the Christian Indians," bearing date Goshen, May 23, 1806.

6. "A Collection of Delaware Conjugations," published at Leipsic, in 1821.

Of the writings of Rev. David Zeisberger, many remain in manuscript.

Of those deposited in the library of the American Philosophical Society, at Philadelphia, are the following:

1. "Lexicon of the German and Onondaga Languages,"—a very extensive production of seven or eight volumes. There is an abridgement of it, also in manuscript.
2. "A Complete Grammar of the Onondaga Language."
3. "A Grammar of the Language of the Lenni-Lenapi, or Delaware Indians."

The following is a list of his manuscripts, deposited in the library of Harvard University:

1. "A Dictionary in German and Delaware."
2. "Delaware Glossary."
3. "Delaware Vocabulary."
4. "Phrases and Vocabularies in Delaware."
5. "Delaware Grammar."
6. "Harmony of the Gospels in Delaware."
7. "Hymns for the Christian Indians, in the Delaware Language."
8. "Litany and Liturgies in Delaware."
9. "Hymn Book in the Delaware Language."
10. "Sermons in Delaware."
11. "Seventeen Sermons to Children."
12. "Church Litany in Delaware."
13. "Short Biblical Narratives in Delaware."
14. "Vocabulary in Maqua and Delaware"

Some of the foregoing are duplicates. The above manuscripts were handsomely bound, after reaching the library of Harvard University, and occupy a conspicuous place there, and will be carefully preserved for posterity.

Rev. David Zeisberger died at Goshen, in the Tuscarawas Valley, November 17, 1808, having attained the ripe age of eighty-seven years and seven months. He left no issue, and the name has no living representative as a missionary, or even as a Moravian Christian. Mrs. Zeisberger remained at Goshen until August 11, 1809, when she removed to Bethlehem, Pennsylvania, where she died September 8, 1824, aged eighty years, six months, and twenty-one days.

A marble slab in the Goshen cemetery bears the following epitaph:

DAVID ZEISBERGER,

Who was born 11 April, 1721, in Moravia, and departed this
life 17 Nov., 1808, aged 87 years, 7 m. and 6 days.

This faithful servant of the Lord labored among the American
Indians as a Missionary during the last sixty
years of his life.

REV. JOHN HECKEWELDER.

The chapter of our annals which acquaints us with the incidents connected with the efforts of the Moravian missionaries to civilize and christianize our Indians, has been read with pleasure by all those who are interested in the facts, events, and philosophy of our history. To many the narratives of those evangelizing labors are of surpassing interest, and possess all the fascination of romance. And they have intensified charms for those whose christian impulses lead them into hearty sympathy with the laborious, self-sacrificing, devoted men who had religiously dedicated themselves to the toilsome and most unpromising task of lifting our untutored aboriginal inhabitants out of the degradation and savagery of their heathen state and comparatively hopeless condition, and by long-continued, faithful labors, raising them up and placing them upon the more elevated platform of civilization, and to the purer, higher, holier plane of christianity. And, perchance, others may be brought to participate with those classes of readers, in the enjoyment of the charms and fascinations of the story of the brave-hearted, noble-minded, and conscientious Moravian missionaries of Ohio, when the details of their arduous labors are presented for their contemplation. Theirs is a sacredly classic history, abounding in most precious memories, and has always been, to many minds, redolent of ever-to-be-cherished associations.

Lessons deducible from the life-story of those self-sacrificing missionaries may not be altogether without interest, or unimportant and valueless to the men of the present generation.

Rev. John Heckewelder (or as it was originally written, John Gottlieb Ernestus Heckewelder) was born at Bedford, in England, March 12, 1743, his father having fled thither from Moravia, a province of Austria, in order to avoid persecution, and where he might enjoy religious freedom. John was sent to the parochial or sectarian schools, first at Buttermere and afterwards at Fulneck, where the chief object was the inculcation of moral and religious principles and thorough indoctrination into the truths of christianity as understood and taught by the Moravian church, which has in an eminent degree, always held secular learning subordinate to religious knowledge. With that denomination bible teachings and the study of the sacred classics have, in a special sense, ever been esteemed of paramount importance. To create in the pupil's mind an overpowering interest in matters pertaining to the life to come, was the all-in-all in the Moravian system of education, the chief object and purpose of Moravian schools. To make christians (in the highest sense) of every student—to establish a thoroughly religious congregation in each one of their literary institutions—to infuse into each individual pupil

the missionary spirit, and dedicate him to mission labors in heathen lands, was the beginning, the middle, and the end of their purpose—their main object—the principal aim at their seats of learning.

Such being the ideas always kept prominently before the pupils in Moravian educational institutions, it is not surprising that he who is the subject of this sketch should have become, in early life, deeply imbued with the genius of Christianity—that he should have entered into the spirit of Christ's gospel, and during his school years have yielded readily to those favorable influences and instructions—and entered enthusiastically, zealously, during his young manhood, into the mission field, and remained therein a faithful laborer for half a century, even to old age. And to the end of his life he cherished grateful recollections of the impressions made upon his mind, and of the religious instruction imparted to him while at these schools by his affectionate, devoted, christian teachers.

In 1754, when eleven years of age, John Heckewelder, in company with his parents and about forty other Moravian colonists, sailed for America in the ship *Irene*, which arrived at the port of New York April 2d, when the immigrants disembarked and started for Bethlehem, the Moravian village on the Lehigh River, in Pennsylvania, all arriving there April 20, 1754. Just before the *Irene* sailed, Count Zinzendorf, the then head of the Moravian church, went on board and gave his parting blessing to those who had embarked for the new world. In a paternal manner he implored the young lad, John Heckewelder, to make it his principal aim to prepare himself for preaching the gospel among the heathen; and then placing his hands upon his head, the pious and devout christian count invoked a special blessing upon him.

John attended school at Bethlehem for two years, making good progress in his studies, and then went to Christian Spring, a small Moravian settlement nine miles north of Bethlehem, where he was employed somewhat at "field labor and other manual occupations." He, however, also, meanwhile enjoyed opportunities which were not neglected, for improving himself during his leisure hours, having the benefit of the instruction of two Moravian teachers, Messrs. Zeigler and Fries, both reputed to possess good scholarship. His parents, while he was at this place, were called to serve a mission station on one of the Spanish West India Islands, where they soon died, and he, in 1758, returned to Bethlehem, and engaged himself as an apprentice to learn the art of making cedar-wood ware—to be a cooper, in short. Here four years more of his life were spent, learning a trade and pursuing his studies diligently, when he was chosen by the missionary, Charles Frederick Post, as an assistant in

the mission work in the Tuscarawas Valley, in 1761, as has been already related.

After his return to Bethlehem he assisted in establishing the new mission of Friendenshütten, and for nine years made himself extensively useful there and at other mission stations, and as an instructor in schools. In the spring of 1771 he accompanied Rev. David Zeisberger to the mission station on Beaver River, in western Pennsylvania (now in Lawrence county), called Friedensstadt, where he remained a year, and then accompanied Zeisberger to the Tuscarawas Valley, as heretofore stated. The chief incidents of his career, so far as they were connected with our mission stations from 1772 to 1798, when he entered actively upon his duties as the "agent of the society of the United Brethren for propagating the gospel among the heathen," have been presented. Between those years he was almost constantly engaged in the performance of mission work at various points, and in rendering services, as a civilian, by holding councils, forming treaties, acting as an assistant ambassador, and sometimes as interpreter.

The expedition of General Harmar, in 1790, and that of General St. Clair, in 1791, having failed to subjugate the unfriendly Indian tribes in the West, and the western settlements still being liable to attacks from marauding parties, it became a matter of the first importance with the federal government to secure peace by negotiation, if possible. With that object in view the Rev. John Heckewelder, who was thought to be a discreet man, and enjoying a high degree of public confidence, was appointed by General Knox, then Secretary of War, as an associate ambassador with General Rufus Putnam, of Marietta, with authority to form treaties of peace with various Indian tribes in the West. Instructions were issued to them on the twenty-second of May, 1792. By arrangement they met at Pittsburgh near the last of June, and reached Fort Washington on the second of July, on their way to Post Vincennes, on the Wabash, where they arrived on the twelfth of September. Here, on the twenty-seventh of said month, a treaty of peace was concluded and signed by Putnam and Heckewelder, and by thirty-one chiefs of the tribes from the upper and lower Wabash, Eel River, Cahokia, Kaskaskia, St. Joseph's River, and from Lake Michigan. After a liberal distribution of presents the commissioners started, on the fifth of October, with sixteen chiefs for Philadelphia, where they arrived early in February, Heckewelder having been absent nearly nine months.

As the results of these labors seemed encouraging, and promising success, a *second* embassy was resolved upon. The ambassadors chosen this time were Gen. Benjamin Lincoln, Col. Timothy Pickering, and Governor

Beverly Randolph. Mr. Heckewelder's acquaintance with the language and character of the Indians, and his high personal reputation among them, it was thought might be of essential service to the embassy in their negotiations with the Indians; he was therefore attached to it as an assistant ambassador. They left Philadelphia April 27, 1793, for the Miami of the Lakes (now Maumee), where they were to meet the Indian chiefs of the north-west in council, to agree upon terms of peace, if possible. To this end their fruitless labors were protracted until about the middle of August, when the ambassadors returned to Philadelphia, Mr. Heckewelder reaching his home at Bethlehem on the 25th of September, after an absence of five months.

In 1797 Mr. Heckewelder twice visited the Tuscarawas Valley, extending his journey to Marietta. In 1798 he traveled as far to the north-west as the river Thames, in "Upper Canada," in the interest of the Moravian mission station of Fairfield. About midsummer of this year we find him again in the Tuscarawas Valley rebuilding Gnadenhütten, as already stated.

Rev. John Heckewelder was elected an Associate Judge of Tuscarawas county upon its organization in 1808, and served as such until 1810, when he resigned his position of "superintendent of the missions west of the Ohio River," and also the judgeship, and returned to Bethlehem, Pennsylvania, to close his days in quiet retirement, after having served the missionary cause with ability and fidelity for almost half a century.

Rev. John Heckewelder lived more than twelve years after his direct and active connection with western missions was dissolved, in 1810, his death occurring January 31, 1823, having attained to the ripe age of almost eighty years. But those twelve years of comparative retirement, although they embraced the period of his old age and infirmities, were not by any means years of idleness and uselessness. His biographer, Rev. Edward Rondthaler, says that "he still continued to serve missions and the mission cause in an efficient way, by giving to the public needed information pertaining to them, and imparting much useful information relative to the language, manners, and customs of the Indians." He wrote extensively during his retirement, some of the productions of his pen being intended for the public generally. Among his published works are his "History, Manners, and Customs of the Indian Nations who once inhabited Pennsylvania and the Neighboring States," and his "Narrative of the Mission of the United Brethren among the Delaware and Mohegan Indians." The former of these works was written in 1819, at the repeated request of the President of the American Philosophical Society, and was published under the auspices of the historical and literary committee of said society, a society of which he was an honored

member. The last named work was prepared by him in 1821, when he had reached the age of more than seventy-seven years. In this paper he expressed the opinion that the "Crawford expedition to the Sandusky, in 1782, was organized for the purpose of destroying the remnant of the Moravian Indians on said river." The author of "Crawford's Campaign against Sandusky" (C. W. Butterfield), I think, clearly refutes that charge against Col. Crawford, by testimony that conclusively shows the object of the expedition to have been "*the destruction of the Wyandot Indian town and settlement at Sandusky.*"

The life of Rev. John Heckewelder was one of great activity, industry, and usefulness. It was a life of vicissitudes, of perils, and of wild, romantic adventure. How it abounded in hardships, privations, and self-sacrificing devotion to the interests of the barbarians of the western wilderness! How earnestly, persistently, faithfully, zealously, he labored to propagate that Gospel which was the chief inspiration of the exalted heroism that characterized his eventful life! Unselfishly he exposed himself to danger; disinterestedly he toiled to bring wild and barbarous tribes into the enjoyment of the blessings of civilization and of christianity. It would indeed be difficult to over-estimate the importance or value of the labors of Rev. John Heckewelder in the various characters of philanthropist, philosopher, pioneer, teacher, ambassador, author, and christian missionary.

Rev. John Heckewelder was a gentleman of courteous and easy manners, of frankness, affability, veracity; without affectation or dissimulation; meek, cheerful, unassuming; humble, unpretending, unobtrusive; retiring, rather taciturn, albeit, when drawn out, communicative and a good conversationalist. He was in extensive correspondence with many "men of letters," by whom he was held in great esteem. Throughout his long life he was the red man's constant and faithful friend, having gone forth a pilgrim, while yet in his young manhood, in the spirit of enthusiastic heroism, unappalled by danger, unwearied by fatigue and privation, and undismayed by prospective toils and self-denials, to put forth his best efforts to ameliorate their condition and bring them under the benign influences of a noble, elevating, purifying, Christian civilization.

RETROCESSION OF THE MORAVIAN LAND GRANTS.

For reasons already stated, the retrocession of the three several tracts of Moravian lands in the Tuscarawas Valley, and the removal westward of the remnant of Moravian Indians who still occupied them, was decided upon in 1823. To consummate that purpose, General Lewis Cass, at that time Governor of Michigan Territory, was appointed Commissioner to represent the General Government, and Rev. Lewis David

de Schweinitz was chosen to act as the commissioner on behalf of "The Society for the Propagation of the Gospel among the Heathen." They met at Gnadenhütten, and there agreed upon the terms of retrocession, August 4, 1823, by which said society was divested of its trust of those lands, provided the christian Indians assented thereto. That assent was obtained at a meeting held with Governor Cass, November 8, 1823. According to the terms of the treaty, twenty-four thousand acres of land (and a small annuity) were granted to the Indians, or for their benefit, situated in some one of the territories of the United States, in consideration of their relinquishment of their title to the foregoing tracts in the Tuscarawas Valley, which, as heretofore described, contained twelve thousand acres. The deed of retrocession was executed April 1, 1824, and *that act brought to a close, finally, Moravian missions among the Indians in Ohio.*

NOTE.

For many of the facts given in the foregoing paper, I acknowledge myself indebted to "Howe's Historical Collections of Ohio;" to "Land Laws of Ohio;" to the "Biography of Rev. John Heckewelder;" to "Scenes in the Wilderness;" to "Western Annals;" to "The Life and Times of Rev. David Zeisberger;" to "Olden Times;" to "Indian Wars," by Rev. Dr. Joseph Doddridge; to "Kilbourn's Ohio Gazetteer;" to "C. H. Mitchener's History of the Muskingum Valley;" to "Hunt's History of Coshocton County;" to "Williams's American Pioneer;" and, perhaps, to some other publications.

P. S.—It is stated on page 59 of last year's "Annual Report of the Secretary of State," that it was generally conceded that Leicester G. Converse was the first white child born within the limits of our State, after the permanent settlement was made at the mouth of the Muskingum, in 1783. From some correspondence of recent date, had with Mr. Edwin Corner, of McConnellsville, and Mr. A. T. Nye, of Marietta, there is reason to believe that that statement was erroneous. They give the names, as well as the dates and place (Marietta), of the first four births, as follows:

Arthur St. Clair Kelley was born December 30, 1788.

James Varnum Cushing was born January 27, 1789.

Leicester G. Converse was born February 7, 1789.

Joseph Barker was born February 23, 1789.

From the above statement, which is probably correct, it will be seen that L. G. Converse was born about six weeks after the birth of A. St. Clair Kelley, and ten days after J. V. Cushing, and that only two months intervened between the birth of the first (Kelley) and the last (Barker). Converse was, therefore, the *third*, and *not* the *first*, white child born in the "*Territory North-west of the River Ohio.*"

O H I O
TERRITORIAL AND STATE GOVERNORS,
FROM 1788 TO 1880,
AND
SENATORS AND REPRESENTATIVES IN CONGRESS
FROM 1789 TO 1881.

LIST OF TERRITORIAL AND STATE GOVERNORS,

*From the organization of the first Civil Government in the Northwest Territory (1788 to 1802)
of which the State of Ohio was a part, until the year 1880.*

Name.	County.	Term commenced.	Term ended.
(a) Arthur St. Clair		July 13, 1788	1802
*Charles Willing Byrd	Hamilton	1802	March 3, 1803
(b) Edward Tiffin	Ross	March 3, 1803	March 4, 1807
(c) † Thomas Kirker	Adams	March 4, 1807	Dec. 12, 1808
Samuel Huntington	Trumbull	Dec. 12, 1808	Dec. 8, 1810
(d) Return Jonathan Meigs	Washington	Dec. 8, 1810	March 25, 1814
† Othniel Looker	Hamilton	April 14, 1814	Dec. 8, 1814
Thomas Worthington	Ross	Dec. 8, 1814	Dec. 14, 1818
(e) Ethan Allen Brown	Hamilton	Dec. 14, 1818	Jan. 4, 1822
† Allen Trimble	Highland	Jan. 7, 1822	Dec. 28, 1822
Jeremiah Morrow	Warren	Dec. 28, 1822	Dec. 19, 1826
Allen Trimble	Highland	Dec. 19, 1826	Dec. 18, 1830
Duncan McArthur	Ross	Dec. 18, 1830	Dec. 7, 1832
Robert Lucas	Pike	Dec. 7, 1832	Dec. 13, 1836
Joseph Vance	Champaign	Dec. 13, 1836	Dec. 13, 1838
Wilson Shannon	Belmont	Dec. 13, 1838	Dec. 16, 1840
Thomas Corwin	Warren	Dec. 16, 1840	Dec. 14, 1842
(f) Wilson Shannon	Belmont	Dec. 14, 1842	April 13, 1844
† Thomas W. Bartley	Richland	April 13, 1844	Dec. 3, 1844
Mordecai Bartley	Richland	Dec. 3, 1844	Dec. 12, 1846
William Bebb	Butler	Dec. 12, 1846	Jan. 22, 1849
(g) Seabury Ford	Geauga	Jan. 22, 1849	Dec. 12, 1850
(h) Reuben Wood	Cuyahoga	Dec. 12, 1850	July 15, 1853
(j) † William Medill	Fairfield	July 15, 1853	Jan. 14, 1856
Salmon P. Chase	Hamilton	Jan. 14, 1856	Jan. 9, 1860
William Dennison	Franklin	Jan. 9, 1860	Jan. 13, 1862
David Tod	Mahoning	Jan. 13, 1862	Jan. 12, 1864
(k) John Brough	Cuyahoga	Jan. 12, 1864	Aug. 29, 1865
† Charles Anderson	Montgomery	Aug. 30, 1865	Jan. 9, 1866
Jacob D. Cox	Trumbull	Jan. 9, 1866	Jan. 13, 1868
Rutherford B. Hayes	Hamilton	Jan. 13, 1868	Jan. 8, 1872
Edward F. Noyes	Hamilton	Jan. 8, 1872	Jan. 12, 1874
William Allen	Ross	Jan. 12, 1874	Jan. 14, 1876
(l) Rutherford B. Hayes	Sandusky	Jan. 14, 1876	March 2, 1877
(m) Thomas L. Young	Hamilton	March 2, 1877	Jan. 14, 1878
Richard M. Bishop	Hamilton	Jan. 14, 1878	Jan. 14, 1880

(a) Arthur St. Clair, of Pennsylvania, was Governor of the Northwest Territory, of which Ohio was a part, from July 13th, 1788, when the first civil government was established in the Territory, until about the close of the year 1802, when he was removed by the President.

* Secretary of the Territory, and was acting Governor of the Territory after the removal of Governor St. Clair.

(b) Resigned March 3, 1807, to accept the office of United States Senator.

(c) Return Jonathan Meigs was elected Governor on the second Tuesday of October, 1807, over Nathaniel Massie, who contested the election of Meigs, on the ground that "he had not been a resident of this State for four years next preceding the election, as required by the Constitution," and the General Assembly, in joint convention, declared that he was not eligible. The office was not given to Massie, nor does it appear, from the records, that he claimed it, but Thomas Kirker, acting Governor, continued to discharge the duties of the office until December 12, 1808, when Samuel Huntington was inaugurated, he having been elected on the second Tuesday of October in that year.

(d) Resigned March 25, 1814, to accept the office of Postmaster-General of the United States.

(e) Resigned January 4, 1822, to accept the office of United States Senator.

(f) Resigned April 13, 1844, to accept the office of Minister to Mexico.

(g) The result of the election in 1848 was not finally determined in joint convention of the two houses of the General Assembly until January 19, 1849, and the inauguration did not take place until the 23d of that month.

(h) Resigned July 15, 1853 to accept the office of Consul to Valparaiso.

(j) Elected in October, 1853, for the regular term, to commence on the second Monday of January, 1854.

(k) Died August 29, 1865.

† Acting Governor.

† Acting Governor, vice Wilson Shannon, resigned.

† Acting Governor, vice Reuben Wood, resigned.

† Acting Governor, vice John Brough, deceased.

(l) Resigned March 2, 1877, to accept the office of President of the United States.

(m) Vice Rutherford B. Hayes, resigned.

SENATORS AND REPRESENTATIVES.

Elected to Congress from Ohio, from the Organization of the Territorial Government to the year 1881.

VTH CONGRESS—FROM 1799 TO 1801.

Delegates.	Counties.
William H. Harrison (a)	Hamilton.
William McMillan (b)	Hamilton.

VIITH CONGRESS—FROM 1801 TO 1803.

Delegate.	Counties.
Paul Fearing	Washington.

VIIITH CONGRESS—FROM 1803 TO 1805.

Senators.	Counties.
Thomas Worthington	Ross.
John Smith	Hamilton.
Representative.	
Jeremiah Morrow	Warren.

IXTH CONGRESS—FROM 1805 TO 1807.

Senators.	Counties.
Thomas Worthington	Ross.
John Smith	Hamilton.
Representative.	
Jeremiah Morrow	Warren.

- (a) Resigned to accept the office of Governor of the Territory of Indiana.
 (b) Vice Harrison, resigned.

XTH CONGRESS—FROM 1807 TO 1809.

Senators.	Counties.
John Smith (c)	Hamilton.
Edward Tiffin	Ross.
Return J. Meigs (d)	Washington.
Representative.	
Jeremiah Morrow	Warren.

XITH CONGRESS—FROM 1809 TO 1811.

Senators.	Counties.
Return J. Meigs (e)	Washington.
Thomas Worthington (f)	Ross.
Edward Tiffin (g)	Ross.
Alex. Campbell (h)	Brown.
Stanley Griswold (k)	Cuyahoga.
Representative.	
Jeremiah Morrow	Warren.

XIIth CONGRESS—FROM 1811 TO 1813.

Senators.	Counties.
Alex. Campbell	Brown.
Thomas Worthington	Ross.
Representative.	
Jeremiah Morrow	Warren.

XIIIth CONGRESS—FROM 1813 TO 1815.

Senators.	Counties.
Thomas Worthington*	Ross.
Jeremiah Morrow	Warren.
Joseph Kerr †	Ross.

(c) Resigned. (d) Vice Smith, resigned.

(e) Resigned December 8, 1810, to accept the office of Governor of Ohio.

(f) Vice Meigs, resigned. (g) Resigned in 1809.

(h) Vice Tiffin, resigned. Campbell elected December 12, 1809.

(k) Appointed by Governor to fill vacancy.

* Resigned in 1814, to accept the office of Governor of Ohio.

† Vice Worthington, resigned.

XIIITH CONGRESS—FROM 1813 TO 1815—Continued.

Dist.	Representatives.	Counties.
1	John McLean	Warren.
2	John Alexander	Greene.
3	Duncan McArthur †	Ross.
	William Creighton, Jr. §	Ross.
4	James Caldwell	Belmont.
5	James Kilbourn	Franklin.
6	John S. Edwards (a)	Trumbull.
	Rezin Beall (b)	Wayne.
6	David Clendenen (c)	Trumbull. (d)

XIVTH CONGRESS—FROM 1815 TO 1817.

Senators.		Counties.
Jeremiah Morrow		Warren.
Benjamin Ruggles		Belmont.
Dist.	Representatives.	Counties.
1	John McLean**	Warren.
2	William H. Harrison ††	Hamilton.
	John Alexander	Greene.
3	William Creighton, Jr.	Ross.
4	James Caldwell	Belmont.
5	James Kilbourn	Franklin.
6	David Clendenen	Trumbull. (d)

XVTH CONGRESS—FROM 1817 TO 1819.

Senators.		Counties.
Jeremiah Morrow		Warren.
Benjamin Ruggles		Belmont.

† Resigned April 5, 1813.

§ Vice McArthur, resigned; also Creighton resigned December 14, 1814.

|| There is no record of any election having been ordered or held to fill this vacancy.

(a) Resigned April, 1813.

(b) Vice Edwards, resigned; also Beall resigned August 18, 1814.

(c) Vice Beall, resigned.

d) Now in the present county of Mahoning.

** Resigned in 1816, to accept the office of Judge of the Supreme Court of Ohio.

†† Vice McLean, resigned.

XVTH CONGRESS—FROM 1817 TO 1819—Continued.

Dist.	Representatives.	Counties.
1	William H. Harrison	Hamilton.
2	John W. Campbell	Adams.
3	Levi Barber	Washington.
4	Samuel Herrick	Muskingum.
5	Philemon Beecher	Fairfield.
6	Peter Hitchcock	Geauga.

XVITH CONGRESS—FROM 1819 TO 1821.

Senators.		Counties.
Benjamin Ruggles		Belmont.
William A. Trimble		Highland.
Dist.	Representatives.	Counties.
1	Thomas R. Ross	Warren.
2	John W. Campbell	Adams.
3	Henry Brush	Ross.
4	Samuel Herrick	Muskingum.
5	Philemon Beecher	Fairfield.
6	John Sloan	Wayne.

XVIIth CONGRESS—FROM 1821 TO 1823.

Senators.		Counties.
Benjamin Ruggles		Belmont.
William A. Trimble*		Highland.
Ethan A. Brown†		Hamilton.
Dist.	Representatives.	Counties.
1	Thomas R. Ross	Warren.
2	John W. Campbell	Adams.
3	Levi Barber	Washington.
4 {	John C. Wright †	Jefferson.
5 {	David Chambers §	Muskingum.
5	Joseph Vance	Champaign.
6	John Sloan	Wayne.

* Died in 1822 from the effects of a wound received in battle at Fort Erie, in the war of 1812. † Vice Trimble, deceased. ‡ Resigned. § Vice Wright.

XVIIIth CONGRESS—FROM 1823 TO 1825.

Senators.		Counties.
Benjamin Ruggles		Belmont.
Ethan A. Brown		Hamilton.
Dist.	Representatives.	Counties.
1	James W. Gazlay	Hamilton.
2	Thomas R. Ross	Warren.
3	William McLean	Miami.
4	Joseph Vance	Champaign.
5	John W. Campbell	Adams.
6	Duncan McArthur	Ross.
7	Samuel F. Vinton	Gallia.
8	William Wilson	Licking.
9	Philemon Beecher	Fairfield.
10	John Patterson	Belmont.
11	John C. Wright	Jefferson.
12	John Sloan	Wayne.
13	Elisha Whittlesey	Trumbull.
14	Mordecai Bartley	Richland.

XIXth CONGRESS—FROM 1825 TO 1827.

Senators.		Counties.
Benjamin Ruggles		Belmont.
William H. Harrison		Hamilton.
Dist.	Representatives.	Counties.
1	James Findlay	Hamilton.
2	John Woods	Butler.
3	William McLean	Miami.
4	Joseph Vance	Champaign.
5	John W. Campbell	Adams.
6	John Thompson	Columbiana.
7	Samuel F. Vinton	Gallia.
8	William Wilson	Licking.
9	Philemon Beecher	Fairfield.
10	David Jennings†	Belmont.
10	Thomas Shannon‡	Belmont.
11	John C. Wright	Jefferson.
12	John Sloan	Wayne.
13	Elisha Whittlesey	Trumbull.
14	Mordecai Bartley	Richland.

* In present county of Mahoning. † Resigned in 1826. ‡ Vice Jennings, resigned.

XXTH CONGRESS—FROM 1827 TO 1829.

Senators.	Counties.
Benjamin Ruggles.....	Belmont.
William H. Harrison *.....	Hamilton.
Jacob Burnet †.....	Hamilton.

Dist.	Representatives.	Counties.
1	James Findlay.....	Hamilton.
2	John Woods.....	Butler.
3	William McLean.....	Miami. ‖
4	Joseph Vance.....	Champaign.
5	William Russell.....	Adams.
6	William Creighton, Jr. †.....	Pickaway.
6	Francis Muhlenburg §.....	Pickaway.
7	Samuel F. Vinton.....	Gallia.
8	William Wilson.....	Licking.
9	Philemon Beecher.....	Fairfield.
10	John Davenport.....	Belmont.
11	John C. Wright.....	Jefferson.
12	John Sloan.....	Wayne.
13	Elisha Whittlesey.....	Trumbull.
14	Mordecai Bartley.....	Richland.

XXIst CONGRESS—FROM 1829 TO 1831.

Senators.	Counties.
Benjamin Ruggles.....	Belmont.
Jacob Burnet.....	Hamilton.

Dist.	Representatives.	Counties.
1	James Findlay.....	Hamilton.
2	James Shields.....	Butler.
3	Joseph H. Crane.....	Montgomery.
4	Joseph Vance.....	Champaign.
5	William Russell.....	Scioto.
6	William Creighton, Jr.....	Pickaway.
7	Samuel F. Vinton.....	Gallia.
8	William Stanbery.....	Licking.
9	William W. Irwin.....	Fairfield.
10	William Kennon.....	Belmont.
11	John M. Goodenow (a).....	Jefferson.
11	Humphrey H. Leavitt (b).....	Jefferson.
12	John Thompson.....	Columbiana.
13	Elisha Whittlesey.....	Trumbull. ¶
14	Mordecai Bartley.....	Richland.

* Resigned in 1828 to accept appointment of Minister to Colombia. † Vice Harrison.
 ‡ Resigned in 1828, after second election, to accept the appointment of Judge of the United States District Court, but was not confirmed by the United States Senate. § Vice Creighton, resigned. ‖ Removed to Warren in 1827 or 1828. ¶ Now present county of Mahoning. (a) Resigned April 14, 1830. (b) Vice Goodenow, resigned; Leavitt elected November, 1830.

XXIIId CONGRESS—FROM 1831 TO 1833.

Senators.		Counties.
Benjamin Ruggles.....		Belmont.
Thomas Ewing.....		Fairfield.
Dist.	Representatives.	Counties.
1	James Findlay.....	Hamilton.
2	Thomas Corwin.....	Warren.
3	Joseph H. Crane.....	Montgomery.
4	Joseph Vance.....	Champaign.
5	William Russell.....	Scioto.
6	William Creighton, Jr.....	Pickaway.
7	Samuel F. Vinton.....	Gallia.
8	William Stanbery ..	Licking.
9	William W. Irwin.....	Fairfield.
10	William Kennon.....	Belmont.
11	Humphrey H. Leavitt.....	Jefferson.
12	John Thompson.....	Columbiana.
13	Elisha Whittlesey.....	Trumbull.*
14	Eleutheros Cook.....	Huron.†

XXIIIId CONGRESS—FROM 1833 TO 1835.

Senators.		Counties.
Thomas Ewing.....		Fairfield.
Thomas Morris.....		Clermont.
Dist.	Representatives.	Counties.
1	Robert T. Lytle†.....	Hamilton.
2	Taylor Webster.....	Butler.
3	Joseph H. Crane.....	Montgomery.
4	Thomas Corwin.....	Warren.
5	Thomas L. Hamer.....	Brown.
6	Samuel F. Vinton.....	Gallia.
7	William Allen.....	Ross.
8	Jeremiah McLene.....	Franklin.
9	John Chaney.....	Fairfield.
10	Joseph Vance.....	Champaign.
11	James M. Bell.....	Guernsey.
12	Robert Mitchell.....	Muskingum.
13	David Spangler.....	Coshocton.
14	William Patterson.....	Richland.
15	Jonathan Sloane.....	Portage.
16	Elisha Whittlesey.....	Trumbull.*
17	John Thompson.....	Columbiana.
18	Benjamin Jones.....	Wayne.
19 {	Humphrey H. Leavitt §.....	Jefferson.
	Daniel Kilgore ¶.....	Harrison.

* Now in present county of Mahoning. † Now present county of Erie. ‡ Resigned October 16, 1834, and re-elected November 8, 1834. § Resigned July 10, 1834, to accept the office of Judge of the United States District Court for Ohio. ¶ Vice Leavitt, resigned; Kilgore elected October 18, 1834.

XXIVTH CONGRESS—FROM 1835 TO 1837.

Senators.		Counties.
Thomas Ewing.....		Fairfield.
Thomas Morris.....		Clermont.

Dist.	Representatives.	Counties.
1	Bellamy Storer.....	Hamilton.
2	Taylor Webster.....	Butler.
3	Joseph H. Crane.....	Montgomery.
4	Thomas Corwin.....	Warren.
5	Thomas L. Hamer.....	Brown.
6	Samuel F. Vinton.....	Gallia.
7	William Key Bond.....	Rosa.
8	Jeremiah McLene.....	Franklin.
9	John Chaney.....	Fairfield.
10	Samson Mason.....	Clarke.
11	William Kennon.....	Belmont.
12	Elias Howell.....	Licking.
13	David Spangler.....	Coshocton.
14	William Patterson.....	Richland.
15	Jonathan Sloane.....	Portage.
16	Elisha Whittlesey.....	Trumbull.*
17	John Thompson.....	Columbiana.
18	Benjamin Jones.....	Wayne.
19	Daniel Kilgore.....	Harrison.

XXVTH CONGRESS—FROM 1837 TO 1839.

Senators.		Counties.
Thomas Morris.....		Clermont.
William Allen.....		Rosa.

Dist.	Representatives.	Counties.
1	Alexander Duncan.....	Hamilton.
2	Taylor Webster.....	Butler.
3	Patrick G. Goode.....	Shelby.
4	Thomas Corwin.....	Warren.
5	Thomas L. Hamer.....	Brown.
6	Calvary Morris.....	Athens.
7	William Key Bond.....	Rosa.
8	Joseph Ridgway.....	Franklin.
9	John Chaney.....	Fairfield.
10	Samson Mason.....	Clarke.
11	James Alexander, Jr.....	Belmont.
12	Alexander Harper.....	Maskingum.
13	Daniel P. Leadbetter.....	Holmes.
14	William H. Hunter.....	Huron.
15	John W. Allen.....	Cuyahoga.

* Now in present county of Mahoning.

XXVTH CONGRESS—REPRESENTATIVES—Continued.

Dist.	Representatives.	Counties.
16 {	Elisha Whittlesey*	Trumbull. (a)
	Joshua R. Giddings†	Ashtabula.
17 {	Andrew W. Loomis‡	Columbiana.
	Charles D. Coffin §	Columbiana.
18 {	Matthias Shepler	Stark.
	Daniel Kilgore ¶	Harrison.
19 {	Henry Swearengen || .....	Jefferson.

XXVITH CONGRESS—FROM 1839 TO 1841.

Senators.	Counties.
Benjamin Tappan	Jefferson.
William Allen	Ross.

Dist.	Representatives.	Counties.
1	Alexander Duncan	Hamilton.
2	John B. Weller	Butler.
3	Patrick G. Goode	Shelby.
4 {	Thomas Corwin (b)	Warren.
	Jeremiah Morrow (c) ..	Warren.
5	William Doane	Clermont.
6	Calvary Morris	Athens.
7	William Key Bond	Ross.
8	Joseph Ridgway	Franklin.
9	William Medull	Fairfield.
10	Samson Mason	Clarke.
11	Isaac Parrish	Guernsey.
12	Jonathan Taylor	Licking.
13	Daniel P. Leadbetter	Holmes.
14	George Sweney	Crawford.
15	John W. Allen	Cuyahoga.
16	Joshua R. Giddings	Ashtabula.
17	John Hastings	Columbiana.
18	David A. Starkweather	Stark.
19	Henry Swearengen	Jefferson.

XXVIITH CONGRESS—FROM 1841 TO 1843.

Senators.	Counties.
William Allen	Ross.
Benjamin Tappan	Jefferson.

* Resigned in 1838. † Vice Whittlesey, resigned. ‡ Resigned in 1837. § Vice Loomis, resigned. ¶ Resigned in 1838. || Vice Kilgore, resigned. (a) Now present county of Mahoning. (b) Resigned to accept the office of Governor of Ohio. (c) Vice Corwin, resigned.

XXVIITH CONGRESS—Continued.

Dist.	Representatives.	Counties.
1	Nathaniel G. Pendleton.....	Hamilton.
2	John B. Weller.....	Butler.
3	Patrick G. Goode.....	Shelby.
4	Jeremiah Morrow.....	Warren.
5	William Doane.....	Clermont.
6	Calvary Morrison.....	Athens.
7	William Russell.....	Scioto.
8	Joseph Ridgway.....	Franklin.
9	William Medill.....	Fairfield.
10	Samson Mason.....	Clarke.
11	Benjamin S. Cowen.....	Belmont.
12	Joshua Mathiot.....	Licking.
13	James Matthews.....	Coshocton.
14	George Sweeney.....	Crawford.
15	Sherlock J. Andrews.....	Cuyahoga.
16	Joshua R. Giddings.....	Ashtabula.
17	John Hastings.....	Columbiana.
18	Ezra Dean.....	Wayne.
19	Samuel Stokeley.....	Jefferson.

XXVIIITH CONGRESS—FROM 1843 TO 1845.

	Senators.	Counties.
	William Allen.....	Ross.
	Benjamin Tappan.....	Jefferson.

Dist.	Representatives.	Counties.
1	Alexander Duncan.....	Hamilton.
2	John B. Weller.....	Butler.
3	Robert C. Schenck.....	Montgomery.
4	Joseph Vance.....	Champaign.
5	Emery D. Potter.....	Lucas.
6	Henry St. John.....	Seneca.
7	Joseph J. McDowell.....	Highland.
8	John I. Van Meter.....	Pike.
9	Elias Florence.....	Pickaway.
10 {	Heman A. Moore †.....	Franklin.
	Alfred P. Stone ‡.....	Franklin.
11	Jacob Brinkerhoff.....	Richland.
12	Samuel F. Vinton.....	Gallia.
13	Perley B. Johnson.....	Morgan.
14	Alexander J. Harper, Jr.....	Muskingum.
15	Joseph Morris.....	Monroe.
16	James Matthews.....	Coshocton.
17	William McCauslin.....	Jefferson.
18	Ezra Dean.....	Wayne.
19	Daniel R. Tilden.....	Portage.
20	Joshua R. Giddings.....	Ashtabula.
21 {	Henry R. Brinkerhoff ¶.....	Huron.
	Edward S. Hamlin §.....	Lorain.

*Resigned in 1842, and re-elected April 26, 1842. †Died in 1844. ‡Vice H. A. Moore, deceased; Stone elected October 8, 1844. ¶Died in 1844. §Hamlin elected October 8, 1844, vice H. R. Brinkerhoff, deceased.

XXIXTH CONGRESS—FROM 1845 TO 1847.

Senators.		Counties.
William Allen		Ross.
Thomas Corwin		Warren.

Dist.	Representatives.	Counties.
1	James J. Faran	Hamilton.
2	Francis A. Cunningham	Preble.
3	Robert C. Schenck	Montgomery.
4	Joseph Vance	Champaign.
5	William Sawyer	Mercer.*
6	Henry St. John	Seneca.
7	Joseph J. McDowell	Highland.
8	Allen G. Thurman	Ross.
9	Augustus L. Perrill	Pickaway.
10	Columbus Delano	Knox.
11	Jacob Brinkerhoff	Richland.
12	Samuel F. Vinton	Gallia.
13	Isaac Parrish	Morgan.†
14	Alexander Harper, Jr.	Muskingum.
15	Joseph Morris	Monroe.
16	John D. Cummins	Tuscarawas.
17	George Fries	Columbiana.
18	David A. Starkweather	Stark.
19	Daniel R. Tilden	Portage.
20	Joshua R. Giddings	Ashtabula.
21	Joseph M. Root	Huron.

XXXTH CONGRESS—FROM 1847 TO 1849.

Senators.		Counties.
William Allen		Ross.
Thomas Corwin		Warren.

Dist.	Representatives.	Counties.
1	James J. Faran	Hamilton.
2	David Fisher	Clinton.
3	Robert C. Schenck	Montgomery.
4	Richard S. Canby	Logan.
5	William Sawyer	Mercer.‡
6	Rodolphus Dickinson	Sandusky.
7 {	Thomas L. Hamer §	Brown.
7 {	Jonathan D. Morris §	Clermont.
8	John L. Taylor	Ross. †

* Now part of Auglaize. † Now part of Noble. ‡ Present county of Auglaize. § General Thomas L. Hamer died in Mexico previous to the convening of the Congress to which he was elected, being at that time in the military service of the United States. ¶ Vice Hamer, deceased.

XXXTH CONGRESS—REPRESENTATIVES—Continued.

Dist.	Representatives.	Counties.
9	Thomas O. Edwards	Fairfield.
10	Daniel Duncan	Licking.
11	John K. Miller	Knox.
12	Samuel F. Vinton	Gallia.
13	Thomas Ritchey	Perry.
14	Nathan Evans	Guernsey.
15	William Kennon, Jr.	Belmont.
16	John D. Cummins	Tuscarawas.
17	George Fries	Columbiana.
18	Samuel Lahm	Stark.
19	John Crowell	Trumbull.
20	Joshua R. Giddings	Ashtabula.
21	Joseph M. Root	Huron.

XXXIst CONGRESS—FROM 1849 TO 1851.

Senators.	Counties.
Thomas Corwin	Warren.
Thomas Ewing §	Fairfield.
Salmon P. Chase	Hamilton.

Dist.	Representatives.	Counties.
1	David T. Disney	Hamilton.
2	Lewis D. Campbell	Butler.
3	Robert C. Schenck	Montgomery.
4	Moses B. Corwin	Champaign.
5	Emery D. Potter	Lucas.
6	Rodolphus Dickinson*	Sandusky.
6	Amos E. Wood †	Sandusky.
6	John Bell ‡	Sandusky.
7	Jonathan D. Morris	Clermont.
8	John L. Taylor	Ross.
9	Edou B. Olds	Pickaway.
10	Charles Sweetzer	Delaware.
11	John K. Miller	Knox.
12	Samuel F. Vinton	Gallia.
13	William A. Whittlesey	Washington.
14	Nathan Evans	Guernsey.
15	William F. Hunter	Mourne.
16	Moses Hoagland	Holmes.
17	Joseph Cable	Carroll.
18	David K. Cartter	Stark.
19	John Crowell	Trumbull.
20	Joshua R. Giddings	Ashtabula.
21	Joseph M. Root	Erie.

* Died in 1849, previous to the convening of the Congress to which he was elected.

† Vice Dickinson, deceased. Wood died in 1850.

‡ Resigned to accept the appointment of Secretary of the U. S. Treasury.

§ Vice Corwin, resigned.

¶ Vice Wood, deceased. Bell elected December 20, 1850.

XXXIND CONGRESS—FROM 1851 TO 1853.

Senators.		Counties.
Salmon P. Chase.....		Hamilton.
Benjamin F. Wade.....		Ashtabula.
Dist.	Representatives.	Counties.
1	David T. Disney.....	Hamilton.
2	Lewis D. Campbell.....	Butler.
3	Hiram Bell.....	Darke.
4	Benjamin Stanton.....	Logan.
5	Alfred P. Edgerton.....	Defiance.
6	Frederick W. Green.....	Seneca.
7	Nelson Barrere.....	Adams.
8	John L. Taylor.....	Ross.
9	Edson B. Olds.....	Pickaway.
10	Charles Sweetzer.....	Delaware.
11	George H. Busby.....	Marion.
12	John Welch.....	Athens.
13	James M. Gaylord.....	Morgan.
14	Alexander Harper, Jr.....	Muskingum.
15	William F. Hunter.....	Monroe.
16	John Johnson.....	Coshocton.
17	Joseph Cable.....	Carroll.
18	David K. Cartter.....	Stark.
19	Eben Newton.....	Mahoning.
20	Joshua R. Giddings.....	Ashtabula.
21	Norton S. Townsend.....	Lorain.

XXXIIIRD CONGRESS—FROM 1853 TO 1855.

Senators.		Counties.
Benjamin F. Wade.....		Ashtabula.
Salmon P. Chase.....		Hamilton.
Dist.	Representatives.	Counties.
1	David T. Disney.....	Hamilton.
2	John Scott Harrison.....	Hamilton.
3	Lewis D. Campbell.....	Butler.
4	Matthias H. Nichols.....	Allen.
5	Alfred P. Edgerton.....	Defiance.
6	Andrew Ellison.....	Brown.
7	Aaron Harlan.....	Greene.
8	Moses B. Corwin.....	Champaign.
9	Frederick W. Green.....	Seneca.
10	John L. Taylor.....	Ross.
11	Thomas Ritchey.....	Perry.
12	Edson B. Olds.....	Pickaway.
13	William D. Lindsley.....	Erie.
14	Harvey H. Johnson.....	Ashland.

XXXIIIRD CONGRESS—REPRESENTATIVES—Continued.

Dist.	Representatives.	Counties.
15	William R. Sapp	Knox.
16	Edward Ball	Muskingum.
17	Wilson Shannon	Belmont.
18	George Bliss	Portage.
19	Edward Wade	Cuyahoga.
20	Joshua R. Giddings	Ashtabula.
21	Andrew Stuart	Jefferson.

XXXIVTH CONGRESS—FROM 1855 TO 1857.

Senators.	Counties.
Benjamin F. Wade	Ashtabula.
George E. Pugh	Hamilton.

D	Representatives.	Counties.
1	Timothy C. Day	Hamilton.
2	John Scott Harrison	Hamilton.
3	Lewis D. Campbell	Butler.
4	Matthias H. Nichols	Allen.
5	Richard Mott	Lucas.
6	Jonas R. Emrie	Highland.
7	Aaron Harlan	Greene.
8	Benjamin Stanton	Logan.
9	Cooper K. Watson	Seneca.
10	Oscar F. Moore	Scioto.
11	Valentine B. Horton	Meigs.
12	Samuel Galloway	Franklin.
13	John Sherman	Richland.
14	Philemon Bliss	Lorain.
15	William R. Sapp	Knox.
16	Edward Ball	Muskingum.
17	Charles J. Albright	Guernsey.
18	Benjamin F. Leiter	Stark.
19	Edward Wade	Cuyahoga.
20	Joshua R. Giddings	Ashtabula.
21	John A. Bingham	Harrison.

XXXVTH CONGRESS—FROM 1857 TO 1859.

Senators.	Counties.
Benjamin F. Wade	Ashtabula.
George E. Pugh	Hamilton.

XXXVTH CONGRESS—Continued.

Dist.	Representatives.	Counties.
1	George H. Pendleton	Hamilton.
2	William S. Groesbeck	Hamilton.
3	Lewis D. Campbell *	Butler.
3	Clement L. Vallandigham†	Montgomery.
4	Matthias H. Nichols	Allen.
5	Richard Mott	Lucas.
6	Joseph R. Cockerill	Adams.
7	Aaron Harlan	Greene.
8	Benjamin Stanton	Logan.
9	Lawrence W. Hall	Crawford.
10	Joseph Miller	Ross.
11	Valentine B. Horton	Meigs.
12	Samuel S. Cox	Franklin.
13	John Sherman	Richland.
14	Philemon Bliss	Lorain.
15	Joseph Burns	Coshocton.
16	Cydnor B. Tompkins	Morgan.
17	William Lawrence	Guernsey.
18	Benjamin F. Leiter	Stark.
19	Edward Wade	Cuyahoga.
20	Joshua R. Giddings	Ashtabula.
21	John A. Bingham	Harrison.

XXXVTH CONGRESS—FROM 1859 TO 1861.

	Senators.	Counties.
	Benjamin F. Wade	Ashtabula.
	George E. Pugh	Hamilton.

Dist.	Representatives.	Counties.
1	George H. Pendleton	Hamilton.
2	John A. Gurley	Hamilton.
3	Clement L. Vallandigham	Montgomery.
4	William Allen	Darke.
5	James M. Ashley	Lucas.
6	William Howard	Clermont.
7	Thomas Corwin	Warren.
8	Benjamin Stanton	Logan.
9	John Carey	Wyandot.
10	Carey A. Trimble	Ross.
11	Charles D. Martin	Fairfield.
12	Samuel S. Cox	Franklin.
13	John Sherman	Richland.
14	Harrison G. Blake	Medina.
15	William Helmick	Tuscarawas.
16	Cydnor B. Tompkins	Morgan.
17	Thomas C. Theaker	Belmont.
18	Sidney Edgerton	Summit.
19	Edward Wade	Cuyahoga.
20	John Hutchins	Trumbull.
21	John A. Bingham	Harrison.

* Seat given to C. L. Vallandigham on contest. † Vice L. D. Campbell.

XXXVIITH CONGRESS—FROM 1861 TO 1863.

Senators.		Counties.
Benjamin F. Wade		Ashtabula.
Salmon P. Chase (<i>a</i>)		Hamilton.
John Sherman (<i>b</i>)		Richland.
Dist.	Representatives.	Counties.
1	George H. Pendleton	Hamilton.
2	John A. Gurley	Hamilton.
3	Clement L. Vallandigham	Montgomery.
4	William Allen	Darke.
5	James M. Ashley	Lucas.
6	Chilton A. White	Brown.
7	Thomas Corwin (<i>c</i>)	Warren.
8	Richard A. Harrison (<i>d</i>)	Madison.
9	Samuel Shellabarger	Clarke.
10	Warren P. Noble	Seneca.
11	Carey A. Trimble	Ross.
12	Valentine B. Horton	Meigs.
13	Samuel S. Cox	Franklin.
14	John Sherman (<i>e</i>)	Richland.
15	Samuel T. Worcester (<i>f</i>)	Huron.
16	Harrison G. Blake	Medina.
17	Robert H. Nugen	Tuscarawas.
18	William P. Cutler	Washington.
19	James R. Morris	Monroe.
20	Sidney Edgerton	Summit.
21	Albert G. Riddle	Cuyahoga.
	John Hutchins	Trumbull.
	John A. Bingham	Harrison.

XXXVIIITH CONGRESS—FROM 1863 TO 1865.

Senators.		Counties.
Benjamin F. Wade		Ashtabula.
John Sherman		Richland.
Dist.	Representatives.	Counties.
1	George H. Pendleton	Hamilton.
2	Alexander Long	Hamilton.
3	Robert C. Schenck	Montgomery.
4	John F. McKinney	Miami.
5	Francis C. LeBlond	Mercer.

(*a*) Resigned to accept the appointment of Secretary of the United States Treasury.

(*b*) Vice Chase, resigned.

(*c*) Resigned to accept the appointment of Minister to Mexico.

(*d*) Vice Corwin, resigned.

(*e*) Resigned to accept the office of United States Senator.

(*f*) Vice Sherman, resigned.

XXXVIIITH CONGRESS—REPRESENTATIVES—Continued.

Dist.	Representatives.	Counties.
6	Chilton A. White	Brown.
7	Samuel S. Cox	Franklin.
8	William Johnson	Richland.
9	Warren F. Noble	Seneca.
10	James M. Ashley	Lucas.
11	Wells A. Hutchins	Scioto.
12	William E. Finck	Perry.
13	John O'Neill	Muskingum.
14	George Bliss	Wayne.
15	James R. Morris	Monroe.
16	Joseph W. White	Guernsey.
17	Ephraim R. Eckley	Carroll.
18	Rufus P. Spalding	Cuyahoga.
19	James A. Garfield	Portage.

XXXIXTH CONGRESS—FROM 1865 TO 1867.

Senators.	Counties.
Benjamin F. Wade	Ashtabula.
John Sherman	Richland.

Dist.	Representatives.	Counties.
1	Benjamin Eggleston	Hamilton.
2	Rutherford B. Hayes	Hamilton.
3	Robert C. Schenck	Montgomery.
4	William Lawrence	Logan.
5	Francis C. LeBlond	Mercer.
6	Reader W. Clark	Clermont.
7	Samuel Shellabarger	Clarke.
8	James R. Hubbell	Delaware.
9	Ralph P. Buckland	Sandusky.
10	James M. Ashley	Lucas.
11	Hezekiah S. Bundy	Jackson.
12	William E. Finck	Perry.
13	Columbus Delano	Knox.
14	Martin Welker	Wayne.
15	Tobias A. Plants	Meigs.
16	John A. Bingham	Harrison.
17	Ephraim R. Eckley	Carroll.
18	Rufus P. Spalding	Cuyahoga.
19	James A. Garfield	Portage.

XLTH CONGRESS—FROM 1867 TO 1869.

Senators.	Counties.
Benjamin F. Wade	Ashtabula.
John Sherman	Richland.

XLTH CONGRESS—Continued.

Dist.	Representatives.	Counties.
1	Benjamin Eggleston	Hamilton.
2 {	Rutherford B. Hayes *	Hamilton.
3	Samuel F. Carey †	Hamilton.
4	Robert C. Schenck	Montgomery.
5	William Lawrence	Logan.
6	William Mungen	Hancock.
7	Reader W. Clarke	Clermont.
8 {	Samuel Shellabarger	Clarke.
9	Cornelius S. Hamilton ‡	Union.
10	John Beatty §	Morrow.
11	Ralph P. Buckland	Sandusky.
12	James M. Ashley	Lucas.
13	John T. Wilson	Adams.
14	Philadelph Van Trump	Fairfield.
15	George W. Morgan	Knox.
16	Martin Welker	Wayne.
17	Tobias A. Plants	Meigs.
18	John A. Bingham	Harrison.
19	Ephraim K. Eckley	Carroll.
	Rufus P. Spalding	Cuyahoga.
	James A. Garfield	Portage.

XLlSt CONGRESS—FROM 1869 TO 1871.

Senators.	Counties.
John Sherman	Richland.
Allen G. Thurman	Franklin.

Dist.	Representatives.	Counties.
1	Peter W. Strader	Hamilton.
2	Job E. Stevenson	Hamilton.
3	Robert C. Schenck	Montgomery.
4	William Lawrence	Logan.
5	William Mungen	Hancock.
6	John A. Smith	Highland.
7	James J. Winans	Greene.
8	John Beatty	Morrow.
9	Edward F. Dickinson	Sandusky.
10 {	Truman H. Hoag ¶	Lucas.
11	Erasmus D. Peck ¶	Wood.
12	John T. Wilson	Adams.
13	Philadelph Van Trump	Fairfield.
14	George W. Morgan	Knox.
15	Martin Welker	Wayne.
16	Eliakim H. Moore	Athens.
17	John A. Bingham	Harrison.
18	Jacob A. Ambler	Columbiana.
19	William H. Upson	Summit.
	James A. Garfield	Portage.

* Resigned in 1867 to accept the office of Governor of Ohio. † Vice Hayes, resigned.
‡ Died Dec. 22, 1867. § Vice Hamilton, deceased. ¶ Died in 1870. ¶ Vice Hoag, deceased.

XLIIND CONGRESS—FROM 1871 TO 1873.

Senators.		Counties.
John Sherman		Richland.
Allen G. Thurman		Franklin.

Dist.	Representatives.	Counties.
1 {	Aaron F. Perry (a)	Hamilton.
2 {	Ozro J. Dodds (b)	Hamilton.
3 {	Job E. Stevenson	Hamilton.
4 {	Lewis D. Campbell	Butler.
5 {	John F. McKinney	Miami.
6 {	Charles N. Lamison	Allen.
7 {	John A. Smith	Highland.
8 {	Samuel Shellabarger	Clarke.
9 {	John Beatty	Morrow.
10 {	Charles Foster	Seneca.
11 {	Erasmus D. Peck	Wood.
12 {	John T. Wilson	Adams.
13 {	Philadelph Van Trump	Fairfield.
14 {	George W. Morgan	Knox.
15 {	James Monroe	Lorain.
16 {	William P. Sprague	Morgan.
17 {	John A. Bingham	Harrison.
18 {	Jacob A. Ambler	Columbiana.
19 {	William H. Upson	Summit.
	James A. Garfield	Portage.

XLIId CONGRESS—FROM 1873 TO 1875.

Senators.		P. O. Address.	Counties.
John Sherman		Mansfield	Richland.
Allen G. Thurman		Columbus	Franklin.

Dist.	Representatives.	P. O. Address.	Counties.
1	Milton Sayler	Cincinnati	Hamilton.
2	Henry B. Banning	Cincinnati	Hamilton.
3	John Q. Smith	Oakland	Clinton.
4	Lewis B. Gunckel	Dayton	Montgomery.
5	Charles N. Lamison (c)	Lima	Allen.
6	Isaac R. Sherwood	Bryan	Williams.
7	Lawrence T. Neal	Chillicothe	Ross.
8	William Lawrence (d)	Bellefontaine	Logan.
9	James W. Robinson	Marysville	Union.
10	Charles Foster (c)	Fostoria	Seneca.

(a) Resigned in 1872. (b) Vice Perry, resigned. (c) Member of 42d Congress.
 (d) Member of 39th, 40th, and 41st Congress.

XLIII^d CONGRESS—REPRESENTATIVES—Continued.

Dist.	Representatives.	P. O. Address.	Counties.
11	Hesekiah S. Bundy†	Reed's Mills	Jackson.
12	Hugh J. Jewett	Columbus	Franklin.
13	Milton I. Southard	Zanesville	Muskingum.
14	John Berry	Upper Sandusky	Wyandot.
15	William P. Sprague†	McConnellsville	Morgan.
16	Lorenzo Danford	St. Clairsville	Belmont.
17	Laurin D. Woodworth	Youngstown	Mahoning.
18	James Monroe†	Oberlin	Lorain.
19	James A. Garfield§	Hiram	Portage.
20	Richard C. Parsons	Cleveland	Cuyahoga.

† Member of 42d Congress.

† Member of 39th Congress.

§ Member of 38th, 39th, 40th, 41st, and 42d Congress.

XLIVth CONGRESS—1875 TO 1877.

Senators.	P. O. Address.	Counties.
John Sherman	Mansfield	Richland.
Allen G. Thurman	Columbus	Franklin.

Dist.	Representatives.	P. O. Address.	Counties.
1	Milton Saylor†	Cincinnati	Hamilton.
2	Henry B. Banning†	Cincinnati	Hamilton.
3	John S. Savage	Wilmington	Clinton.
4	John A. McMahon	Dayton	Montgomery.
5	Americus V. Rice	Ottawa	Putnam.
6	Frank H. Hurd	Toledo	Lucas.
7	Lawrence T. Nealt	Chillicothe	Ross.
8	William Lawrence†	Bellefontaine	Logan.
9	Early F. Poppleton	Delaware	Delaware.
10	Charles Foster§	Fostoria	Seneca.
11	John L. Vance	Gallipolis	Gallia.
12	Ansel T. Walling	Circleville	Pickaway.
13	Milton I. Southard†	Zanesville	Muskingum.
14	Jacob P. Cowen	Ashland	Ashland.
15	Nelson H. Van Vorhes	Athens	Athens.
16	Lorenzo Danford†	St. Clairsville	Belmont.
17	Laurin D. Woodworth†	Youngstown	Mahoning.
18	James Monroe§	Oberlin	Lorain.
19	James A. Garfield§	Hiram	Portage.
20	Henry B. Payne	Cleveland	Cuyahoga.

† Member of 43d Congress.

† Member of 39th, 40th, 41st, and 43d Congress.

§ Member of 42d and 43d Congress.

§ Member of 38th, 39th, 40th, 41st, 42d, and 43d Congress.

XLVTH CONGRESS—1877 TO 1879.

Senators.		P. O. Address.	Counties.
John Sherman		Mansfield	Richland.
Allen G. Thurman		Columbus	Franklin.

Dist.	Representatives.	P. O. Address.	Counties.
1	Milton Saylor*	Cincinnati	Hamilton.
2	Henry B. Banning*	Cincinnati	Hamilton.
3	Mills Garduer	Washington	Fayette.
4	John A. McMahon†	Dayton	Montgomery.
5	Americus V. Rice†	Ottawa	Putnam.
6	Jacob D. Cox	Toledo	Lucas.
7	Henry L. Dickey	Greenfield	Highland.
8	J. Warren Keifer	Springfield	Clarke.
9	John S. Jones	Delaware	Delaware.
10	Charles Foster†	Fostoria	Seneca.
11	Henry S. Neal	Ironton	Lawrence.
12	Thomas Ewing	Lancaster	Fairfield.
13	Milton I. Southard*	Zanesville	Muskingum.
14	Ebenezer B. Finley	Bucyrus	Crawford.
15	Nelson H. Van Vorhes †	Athens	Athens.
16	Lorenzo Danford*	St. Clairsville	Belmont.
17	William McKinley, Jr	Canton	Stark.
18	James Monroe†	Oberlin	Lorain.
19	James A. Garfield‡	Mentor	Lake.
20	Amos Townsend	Cleveland	Cuyahoga.

* Member of 43d and 44th Congress. † Member of 44th Congress. ‡ Member of 42d, 43d, and 44th Congress. ¶ Member of 39th, 40th, 41st, 42d, 43d, and 44th Congress.

XLVth CONGRESS—1879 TO 1881.

Senators.	P. O. Address.	Counties.
Allen G. Thurman	Columbus	Franklin.
George H. Pendleton	Cincinnati	Hamilton.

Dist.	Representatives.	P. O. Address.	Counties.
1	Benjamin Butterworth	Cincinnati	Hamilton.
2	Thomas L. Young	Cincinnati	Hamilton.
3	John A. McMahon*	Dayton	Montgomery.
4	J. Warren Keifer†	Springfield	Clarke.
5	Benjamin LeFever	Sidney	Shelby.
6	William D. Hill	Defiance	Defiance.
7	Frank H. Hurd	Toledo	Lucas.
8	Ebenezer B. Finley†	Bucyrus	Crawford.
9	George L. Converse	Columbus	Franklin.
10	Thomas Ewing	Lancaster	Fairfield.
11	Henry L. Dickey†	Greenfield	Highland.
12	Henry S. Neal†	Ironton	Lawrence.
13	Adoniram J. Warner	Marietta	Washington.
14	Gibson Atherton	Newark	Licking.
15	George W. Geddes	Mansfield	Richland.
16	William McKinley, Jr.†	Canton	Stark.
17	James Monroe†	Oberlin	Lorain.
18	Jonathan T. Updegraff	Mt. Pleasant	Jefferson.
19	James A. Garfield‡	Mentor	Lake.
20	Amos Townsend†	Cleveland	Cuyahoga.

* Member of the 43d, 44th, and 45th Congress. † Member of the 45th Congress.
‡ Member of the 42d, 43d, 44th, and 45th Congress. § Member of the 39th, 40th, 41st,
42d, 43d, 44th, and 45th Congress.

NOTE.—The Congressional districts having been changed in 1878, the foot notes on
preceding pages in relation thereto, refer only to changes previously made.

OFFICIAL
ROSTER OF OHIO
FOR 1878-79,

INCLUDING THE HEADS OF DEPARTMENTS AND APPOINTED OFFICERS,
JUDGES OF THE COURTS, AND TIMES OF HOLDING COURTS, TRUSTEES
AND OFFICERS OF STATE EDUCATIONAL, REFORMATORY, AND
BENEVOLENT INSTITUTIONS, MEMBERS OF THE GEN-
ERAL ASSEMBLY OF OHIO, APPORTIONMENT
OF GENERAL ASSEMBLY, COUNTY
OFFICERS, Etc., Etc., Etc.

STATE OFFICERS FOR 1878-79.

ELECTIVE OFFICERS.

Office.	Name.	Residence.	Term expires.
Governor	Richard M. Bishop..	Cincinnati	Jan. 14, 1880
Lieutenant Governor	Jabez W. Fitch	Cleveland	Jan. 14, 1880
Secretary of State	Milton Barnes (a)...	Cambridge	Jan. 13, 1879
Auditor of State	James Williams	Columbus	Jan. 12, 1880
Treasurer of State	Anthony Howells	Massillon	Jan. 12, 1880
Attorney-General	Isaiah Pillars	Lima	Jan. 12, 1880
Commissioner of Common Schools.	J. J. Burns	St. Clairsville..	Jan. 10, 1881
Clerk of Supreme Court	Richard J. Fanning.	Columbus	Feb. 6, 1881
Board of Public Works	Peter Thatcher (b) ..	Cleveland	Feb. 8, 1879
	James C. Evans	Delaware	Feb. 10, 1880
	Martin Schilder	Chillicothe	Feb. 9, 1881
	William White (c) ..	Springfield	Feb. 9, 1879
Judges of the Supreme Court...	W. J. Gilmore	Eaton	Feb. 9, 1880
	Geo. W. McIlvaine ..	N. Philadelphia.	Feb. 9, 1881
	W. W. Boynton	Elyria	Feb. 9, 1882
	John W. Okey	Columbus	Feb. 9, 1883

OFFICERS BY APPOINTMENT—HEADS OF DEPARTMENTS.

Office.	Name.	Residence.	Term.	
			Years	Expires.
Commissioner of Railroads and Telegraphs	William Bell, Jr.	Columbus	2	Jan. 17, 1880
Superintendent of Insurance ..	Joseph F. Wright	Mt. Healthy	3	June 3, 1881
Supervisor of Public Printing ..	William W. Bond	Columbus	2	Apr. 12, 1879
Adjutant-General	Luther M. Meily	Lima	2	Jan. 15, 1880
Inspector of Mines	James D. Poston	Logan	4	Apr. 6, 1882
Secretary of State Board of Ag riculture	John H. Klippart (d) ..	Columbus	1	Jan. 8, 1879
State Librarian	R. M. Stimson	Marietta	2	Mar. 17, 1879
Law Librarian	James H. Beebe	Columbus	3	Feb. 9, 1880
Supreme Court Commission. {	W. W. Johnson	Ironton	3	Feb. 1, 1879
	Josiah Scott	Bucyrus	3	Feb. 1, 1879
	Luther Day	Ravenna	3	Feb. 1, 1879
	D. Thew Wright	Cincinnati	3	Feb. 1, 1879
Commission to Revise and Codify the Laws	T. Q. Ashbren	Batavia	3	Feb. 1, 1879
	M. A. Daugherty	Columbus		
	John S. Brasee	Lancaster		
Commissioner of Labor Statis- tics	Geo. B. Okey	Cincinnati		
	H. J. Walls (e)	Columbus	2	Jan. 1, 1879

(a) Re-elected for two years from January 13, 1879.

(b) George Paul, of Akron, elected for three years from February 8, 1879.

(c) Re-elected for five years from February 9, 1879.

(d) Died October 24, 1878.

(e) Re-appointed January 1, 1879, for two years.

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS.

OFFICIAL ROSTER OF CIVIL AND MILITARY STAFF OF GOVERNOR RICHARD M. BISHOP—
EXECUTIVE DEPARTMENT.*Civil Staff.*

Name.	Office.	Residence.	Term of office.	Term expires.
Richard M. Bishop...	Governor	Cincinnati ..	Two years ...	Jan. 14, 1880.
R. H. Bishop	Private Secretary ..	Cincinnati ..	"	"
Albert Allen	Executive Secretary ..	Columbus ..	Two years ...	"
Johnson Allen	Messenger	Columbus ..	"	"

Military Staff.

Name.	Office.	Residence.	Rank.	Term expires.
Luther M. Meily	Adjutant-General ..	Lima	Brig.-General	Jan. 14, 1880.
Leander R. Hoagland ..	Ass't Adjutant-Gen'l.	Millersburg ..	Colonel	"
Samuel F. Hunt	Judge Adv.-General ..	Cincinnati ..	Brig.-General	"
Chas. L. Young	Quartermaster-Gen'l	Toledo	"	"
J. Emmet Burns	Surgeon-General ..	Cleveland ..	"	"
Frederick Geiger	Chief of Engineers ..	Zanesville ..	Colonel	"
William A. Burchard ..	Aid-de-Camp	Warren	"	"
Carson Lake	"	Akron	"	"
Richard Nevins, Jr. ...	"	Columbus ..	"	"
Griffin H. Eidson	"	Eaton	"	"
Evan F. Williams	"	Ironton	"	"
Louis Schmidt	"	Marietta	"	"
James M. Williams	"	Coshocton ..	"	"
Ralph K. Page	"	Painesville ..	"	"
Thos. R. Roberts	"	Cincinnati ..	"	"
M. L. Hall	"	Sidney	"	"

DEPARTMENT OF STATE.

Name.	Office.	Residence.	Term of office.	Term expires.
Milton Barnes *	Secretary of State...	Cambridge ..	Two years ...	Jan. 13, 1879.
Alexis Cope	Chief clerk	St. Clairsville	"	"
W. M. Cunningham ..	Statistician	Newark	"	"
Frank P. Barnes	Corporation clerk ..	Barnesville ..	"	"
John W. Rose	Recording clerk	Quaker City ..	"	"
Charles H. Ostrander ..	Stationery clerk	Cleveland ..	"	"
George Welker	Sup't packing dep't ..	Columbus ..	"	"
Josiah Wilson	Janitor	Williamsburg ..	"	"

* Re-elected for two years from January 13, 1879.

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS—Continued.

AUDITOR OF STATE.

Name.	Office.	Residence.	Term of office.	Term expires.
		<i>Columbus.</i>		
James Williams	Auditor of State	78 N. Fourth st.	Four years	Jan. 12, 1880.
Henry S. Babbitt ...	Chief clerk and			
	deputy	40 " "	Pleasure of auditor	" "
W. Staley Shepherd.	Clerk	39 " "	" "	" "
Jas. A. Williams	"	328 Oak st	" "	" "
Horatio J. Cox	"	88 " "	" "	Aug. 1, 1878.
Samuel Williams	"	161 E. Gay st	" "	Jan. 12, 1880.
Chas. J. Wetmore	"	393 E. Broad st	" "	" "
Godfrey M. Robinson	"	60 E. Gay st	" "	" "
John Williams	Messenger	179 E. Spring st	" "	" "

TREASURER OF STATE.

Name.	Office.	Residence.	Term of office.	Term expires.
Anthony Howells ...	Treasurer of State ..	Massillon	Two years ...	Jan. 14, 1880.
J. D. Selzer	Cashier	Cleveland ...	"	" "
A. J. Howells	Book-keeper	Columbus	"	" "
J. B. Estep	"	"	"	" "
D. N. Thomas	Messenger .....	.....	.....	.....
James Lee	Special watchman .....	.....	.....	.....
Lewis Lemoine	General watchman .....	.....	.....	.....

ATTORNEY GENERAL.

Name.	Office.	Residence.	Term of office.	Term expires.
Isaiah Pillars	Attorney General ..	Lima	2 years	Jan. 12, 1880.
James Pillars	Clerk	"	2 "	Jan. 12, 1880.

COMMISSIONERS OF SINKING FUND.

Name.	Office.	Residence.	Term expires.
Jas. Williams, Aud. of State, President	.....	.....	Jan. 11, 1880.
Milton Barnes, Sec'y of State, Sec'y ..	Ex-officio .....	.....	Jan. —, 1881.
Isaiah Pillars, Attorney General .....	.....	.....	Jan. 11, 1880.
F. A. Marble	Clerk	Columbus .....	.....
John Williams	Messenger .....	" .....	.....

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS—Continued.

COMMISSIONER OF COMMON SCHOOLS.

Name.	Office.	Residence.	Term of office.	Term expires.
J. J. Burns	Commissioner.....	St. Clairsville....	3 years.	Jan. 10, 1881.
John H. Brenneman	Chief Clerk	Chillicothe	3 "	Jan. 10, 1881.
James B. Ryan.....	Second Clerk.....	St. Clairsville....	3 "	Jan. 10, 1881.

BOARD OF PUBLIC WORKS.

Name.	Office.	Residence.	Term of office.	Term expires.
Peter Thatcher ...	Member of Board.	Cleveland ...	3 years.	2d Tuesday in Feb., 1879.
James C. Evans...	" "	Delaware ...	3 "	2d Tuesday in Feb., 1880.
Martin Schilder...	" "	Chillicothe ..	3 "	2d Tuesday in Feb., 1881.
W. J. Jackson ...	Chief Engineer ..	Columbus ...	2 "	May 22, 1880.
Wm. S. Williams..	Resident Engineer	Cant. ...	1 "	2d Tuesday in Feb., 1879.
A. J. Cryder.....	" "	Chillicothe ..	1 "	2d Tuesday in Feb., 1879.
John W. Irwin ...	" "	Hamilton ...	1 "	2d Tuesday in Feb., 1879.
A. B. Newburgh ..	Secretary	Columbus ...	1 "	2d Tuesday in Feb., 1879.
F. W. Newburgh ..	Assistant Sec'y...	Columbus ...	1 "	2d Tuesday in Feb., 1879.

COMMISSIONER OF RAILROADS AND TELEGRAPHS.

Name.	Office.	Residence.	Term of office.	Term expires.
William Bell, Jr.....	Commissioner.....	Columbus	2 years.	Jan. 17, 1880.
Sam. C. Bell.....	Chief Clerk	"	2 "	Jan. 17, 1880.
Frank W. Merrick	Assistant Clerk	"	2 "	Jan. 17, 1880.

SUPERINTENDENT OF INSURANCE.

Name.	Office.	Residence.	Term of office.	Term expires.
Joseph F. Wright....	Superintendent	Mt. Healthy	3 years.	June 3, 1881.
Joseph P. Pennington...	Actuary	Columbus	3 "	June 3, 1881.
J. Gano Wright.....	Book-keeper	Mt. Healthy	3 "	June 3, 1881.
Miss Carrie Lind.....	Correspond'g Clerk.	Manassfield	3 "	June 3, 1881.
C. P. Woods.....	Mailing Clerk.....	Columbus	3 "	June 3, 1881.

SUPERVISOR OF PUBLIC PRINTING, STATE BINDERY, AND D. AND D. PRINTING OFFICE.

Name.	Office.	Residence.	Term of office.	Term expires.
W. W. Bond	Supervisor Public Print'g.	Columbus ..	2 years.	Apr. 12, 1879.
M. C. Lilley	Supt. State Bindery.....	"	2 "	Apr. 12, 1879.
Geo. C. Smelz	Asst. Supt. State Bindery.	"	2 "	Apr. 12, 1879.
A. B. Laurens	Supt. D. & D. Print. Office.	"	2 "	Apr. 12, 1879.

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS—Continued.

COMMISSIONERS OF PUBLIC PRINTING.

Name.	Office.	Residence.
Milton Barnes, Secretary of State.....	Ex-officio	Cambridge.
James Williams, Auditor of State.....		Columbus.
Isaiah Pillars, Attorney General		Lima.

ADJUTANT-GENERAL—(*Ex officio Superintendent of State House*).

Name.	Office.	Residence.	Term of office.	Term expires.
Luther M. Meily.....	Adjutant-General ..	Lima	2 years.	Jan. 15, 1890.
Leander R. Hoagland...	Asst. Adjt.-General.	Millersburg	"	Jan. 15, 1890.
Daniel G. Fitch.....	Chief Clerk.....	Dayton	"	Jan. 15, 1890.
Robert H. Higgins.....	Transcribing Clerk ..	Georgetown	"	Jan. 15, 1890.
George W. Houk, Jr.....	"	Dayton	"	Jan. 15, 1890.
Frank Stible	Supt. State Arsenal ..	Sandusky.....	"	Jan. 15, 1890.
Andrew Hennessey	Foreman of laborers ..	Lima		
Wm. J. Creed	Janitor of flag-room ..	Lancaster		
Milton Turner	" rotunda..	Cambridge		
L. K. Sands	Carpenter	Columbus		
Wm. Allensworth.....	Engineer	Troy		
Edward McGill	Fireman	Columbus		
Patrick McCarthy	Assistant fireman ..	"		
Wm. Domigan	Policeman	"		
Louis Lemoine	Night-watch	Macedonia		
Fred. Blankner, Jr.....	Laborer	Columbus		
Albert Riley	"	"		
Patrick Griffin.....	"	"		
James Fallon	"	"		
Patrick Sullivan.....	"	"		
Patrick Kelly	"	"		
Adam Gasselein	"	"		
Thomas Delany	"	Soldiers' Home ..		
Peter N. Frazier	"	"		

STATE BOARD OF AGRICULTURE.

Name.	Office.	Residence.	Term of office.	Term expires.
J. M. Pugh	President	Columbus	1 year	Jan. 8, 1879.
L. B. Wing	Treasurer	Newark	1 year	Jan. 8, 1879.
Jno. H. Klippart*.....	Secretary	Columbus	1 year	Jan. 8, 1879.
Jas. W. Fleming.....	Assistant Secretary	"	1 year	Jan. 8, 1879.

* Deceased October 24, 1878.

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS—Continued

OHIO STATE LIBRARY.

Name.	Office.	Residence.	Term of office.	Term expires.
R. M. Stimson	Librarian	Marietta.	2 years.	March, 1879.
Mary C. Harbaugh.....	Assist. Librarian...	Columbus .....	.....

COMMISSIONERS OF THE OHIO STATE LIBRARY.

Name.	Office.	Residence.
Richard M. Bishop, Governor.....	} Ex officio.....	{ Cincinnati. Cambridge. Marietta.
Milton Barnes, Secretary of State		
R. M. Stimson, State Librarian		

OHIO STATE LAW LIBRARY.

Name.	Office.	Residence.	Term of office.	Term expires.
James H. Beebe	Law Librarian.....	Columbus	3 years.	Feb. 9, 1879.
Frank N. Beebe.....	Asst. Law Librarian	Columbus	1 year.	Second Tuesday after 1st Monday in December.

BOARD OF STATE CHARITIES.

Name.	Office.	Residence.	Term of office.	Term expires.
Gov. R. M. Bishop, Ex-officio President ..	Mem. of B'd.	Cincinnati ...	3 years.	
John W. Andrews, President pro tem....	"	Columbus ...	3 "	1880.
R. Brinkerhoff	"	Mansfield ...	3 "	1881.
Carl Boesel	"	New Bremen ..	3 "	1881.
Joseph Perkins	"	Cleveland ...	3 "	1880.
Murray Shipley	"	Cincinnati ...	3 "	1879.
Rev. A. G. Byers.....	Secretary ...	Columbus ...	.....

OHIO STATE FISH COMMISSION.

Name.	Office.	Residence.	Term of office.	Term expires.
J. C. Fisher	President	Coshocton	3 years.	April, 1881.
Robert Cummins	Treasurer.....	Toledo	3 "	April, 1881.
L. A. Harris.....	Secretary	Cincinnati	3 "	April, 1881.
E. D. Potter	Supt. of Hatchery..	Toledo .....	.....

HEADS OF DEPARTMENTS AND ROSTERS OF APPOINTED OFFICERS—Continued.

DEPARTMENT OF MINES.

Name.	Office.	Residence.	Term of office.	Term expires.
Jas. D. Poston	State Inspector of Mines	Logan	4 years.	April 6, 1882.

DEPARTMENT OF LABOR STATISTICS.

Name.	Office.	Residence.	Term of office.	Term expires.
H. J. Walls (a)	Commissioner	Columbus	2 years.	Jan. 1, 1879.

(a) Reappointed.

OHIO STATE UNIVERSITY, COLUMBUS.

BOARD OF TRUSTEES.

Name.	Residence.
J. H. Anderson	Columbus.
Alston Ellis	Hamilton.
Thomas J. Godfrey	Celina.
S. H. Ellis	Springboro.
Stephen Johnston	Piqua.
James B. Jamison	Cadiz.
T. Ewing Miller	Columbus.

OFFICERS OF THE BOARD.

Name.	Office.	Residence.
Thomas J. Godfrey	President.	Celina.
Albert Allen.....	Secretary.	Columbus.
Henry S. Babbitt.....	Treasurer.	"

EXECUTIVE COMMITTEE.

Name.	Residence.
J. H. Anderson	Columbus.
T. Ewing Miller	Columbus.
Stephen Johnston	Piqua.

FARM COMMITTEE.

Name.	Residence.
S. H. Ellis	Springboro.
James B. Jamison	Cadiz.
J. H. Anderson.....	Columbus.

OHIO STATE UNIVERSITY—Continued.

FINANCE COMMITTEE.

Name.	Residence.
T. Ewing Miller	Columbna.
Alston Ellis	Springboro.
Stephen Johnston	Piqua.

FACULTY.

Edward Orton, Ph.D., President, and Professor of Geology.
 Sidney A. Norton, Ph.D., M.D., Professor of General and Applied Chemistry.
 Joseph Millikin, A.M., Professor of the English Language and Literature, and of the French and German Languages.
 Norton S. Townshend, M.D., Professor of Agriculnture.
 R. W. McFarland, A.M., Professor of Mathematics and Civil Engineering.
 Albert H. Tuttle, M.Sc., Professor of Zoölogy and Comparative Anatomy.
 Luigi Lomia, M.Sc., First Lientenant Fifth Artillery, U. S. A., Professor of Military Science and Tactics, and Adjunct Professor of Mathematics.
 John A. Church, M.E., Professor of Mining and Metallnrgy.
 S. W. Robinson, A.M., Professor of Physics and Mechanics.
 Josiah R. Smith, A.B., Assistant Professor of the Latin and Greek Languages.
 Thomas Mathew, Instructor in Free-hand and Mechanical Drawing.
 Alice Williams, Assistant in Department of Modern Languages.

Josiah R. Smith, A.B., Librarian.

Mary F. Morrison, Assistant Librarian.

Nat. W. Lord, M.E., Assistant in State Laboratory.

OHIO INSTITUTION FOR THE EDUCATION OF THE DEAF AND DUMB.

BOARD OF TRUSTEES.

Name.	Residence.
Jacob Rohrheimer.....	Cleveland.
L. L. Lamborn	Alliance.
Samuel Thomas.....	Columbus.
John Cooke.....	Bridgeport.
E. L. Hinman.....	Columbus.

OFFICERS.

Gilbert O. Fay.....Superintendent.

INSTRUCTORS :

Academic Department.

Charles S. Perry, M.A.,

Robert Patterson, B.A.

Grammar Department.

John D. H. Stewart,
Louisa K. Thompson,

Sarah Noyes,
Lucy E. Brown,

James M. Park, B.A.

Primary Department.

Plumb M. Park,
Matthew G. Raffington,
Cassie H. Smith,
Mary C. Bierce,
George W. Halse,
Ruth E. Hare,

Kate Millikin,
Sarah F. Perry,
M. Annie Byers,
Augustus B. Greener,
Harriet W. Dare,

Carrie M. Feasley,
Mary B. Straw,
Althea B. Jones,
Jennie A. Shrom,
Gertie E. Woofter.

Articulation Department.

Ida W. Kessler,

Fannie L. Howells.

Domestic Department.

N. R. Coleman, M.D.,.....Physician.

H. C. FillerSteward.

Charlotte A. Babbitt.....Matron.

Mary SylerAssistant Matron.

Helen A. Rose....." "

Mary A. Kidder.....Housekeeper.

Department of Trades.

Parley P. Pratt.....Master of Shoe-shop.

W. W. Bond.....Supervisor Public Printing.

Mitchell C. Lilley.....Master of Book-bindery.

A. B. LaurensMaster of Printing-office.

OHIO INSTITUTION FOR THE EDUCATION OF THE BLIND.

BOARD OF TRUSTEES.

Name.	Residence.
Joseph Falkenbach.....	Columbus.
W. R. Wing	Newark.
Harmon Austin	Warren.
C. Blazer	Waverly.
S. D. Houpt.....	Findlay.

OFFICERS.

Name.	Office.
George L. Smead.....	Superintendent.
John McCarty	Steward.
S. C. Gamble, A.B.....	Teacher of Literary Department.
Frank Lumt	" " "
Miss Lizzie Armstrong.....	" " "
Mrs. A. E. Heyl	" " "
Miss Nellie B. Holt	" " "
Miss Mary S. Redick	" " "
Prof. H. J. Nothnagle	Teacher of music.
James McCombs	" "
Miss Joanna Donovan.....	" "
Miss M. A. Tipton.....	" "
Miss Katie Henderlick.....	Music reader.
Mr. Henry Hauenstein	Teacher of Work Department.
Miss Ruth C. Bartlett	" "
Miss Mary Wainwright.....	" "
Miss Ella McCarty	" "
Miss Olive M. Brown.....	Matron.
Miss Mattie McKibben	Assistant Matron.
Miss Annie Thompson.....	" "
Mrs. Catherine Armstrong	Housekeeper.
J. R. Flowers, M.D.....	Physician.

OHIO INSTITUTION FOR THE EDUCATION OF IMBECILE YOUTH.

BOARD OF TRUSTEES.

Name.	Residence.
John A. Shank	Cincinnati.
J. K. Rukenbrod	Salem.
James M. Montgomery	Columbus.

OFFICERS.

Name.	Residence.
Gustavus A. Doren, M.D., Superintendent	Columbus.
Miss Harriett F. Purple, Matron	"
Mrs. Sarah Lawrence, Assistant Matron	"
Miss Sarah Husted, Housekeeper	"
Mrs. N. L. Doren, Teacher	"
Miss M. E. Clift, "	"
Miss L. Lockwood, "	"
Miss L. A. Seymour, "	"
Miss F. Ruggles, "	"
Miss J. Bateham, "	"
Miss P. K. Ayres, "	"
Miss Mary Wickes, "	"
Miss Anna L. McGrew, "	"
Miss J. W. Ricks, "	"
Miss Anna M. Clark, "	"
Miss Ella G. Stocking, "	"
Miss M. D. Clark, "	"
Miss E. L. Clark, "	"
Miss E. V. Thompson, "	"
Miss J. H. Breckenridge, "	"
Miss J. Zurmehly, "	"
Miss F. E. Wright, "	"
Miss M. B. Minor, "	"

COLUMBUS ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
E. J. Blount, President	Columbus.
D. W. Brooks, Secretary	"
Geo. W. Morgan	Mt. Vernon.
Joseph P. Smith	Circleville.
Benj. Myers	Ashland.

OFFICERS.

Name.	Residence.
L. Firestone, M.D., Superintendent	Columbus.
M. A. Tobey, M.D., Assistant Physician	"
C. P. Gailey, M.D., "	"
Thos. Sparrow, M.D., "	"
M. O. Firestone, M.D., "	"
Isaac Anderson, Steward	"
Mrs. L. Firestone, Matron	"

CLEVELAND ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
J. W. Fitch	Cleveland.
James Barnett	"
A. McGregor	Canton.
D. L. Wadsworth	Wellington.
J. F. Perry	Cuyahoga Falls.

OFFICERS.

Name.	Residence.
Jamin Strong, M.D., Superintendent.....	Cuyahoga county.
John S. Marshall, M.D., First Assistant.....	" "
James D. Maxwell, M.D., Second Assistant	" "
Jacob D. Sherrick, M.D., Third Assistant	" "
Charles W. Diehl, Steward.....	" "
Nettie L. Strong, Matron	" "

DAYTON ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
Thos. D. Still, M.D., President	Greenville.
L. G. Gould, Secretary	Eaton.
Job. E. Owens	Hamilton.
C. M. Godfrey	Ottawa.
Dr. H. Schoenfeldt	Miamisburgh.

OFFICERS.

Name.	Residence.
D. A. Morse, M.D., Superintendent	Montgomery Co.
John M. Carr, M.D., Assistant Physician	"
P. N. Adams, M.D., "	"
George Kramer, Steward	"
W. A. Stork, Storekeeper	"
Mrs. A. M. Morse, Matron	"

ATHENS ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
Isaac Stanley, President.	Athens Co.
S. M. McMillan, Secretary	Marietta, Washington Co.
John Schreiner	Middleport, Meigs Co.
F. S. Pursell	Logan, Hooking Co.
A. Ball	Zanesville, Muskingum Co.

OFFICERS.

Name.	Residence.
P. H. Clarke, M.D., Superintendent	Athens County.
J. M. Hawley, M.D., First Assistant	"
J. W. Lash, M.D., Second Assistant	"
Robert Bell, Steward	"
J. E. Ledlie, Storekeeper	"

LONGVIEW ASYLUM FOR THE INSANE.

BOARD OF TRUSTEES.

Name.	Residence.
John C. Morris, President	Hamilton County.
Jas. F. Chalfant, Secretary	"
H. D. Peck	"
A. J. Mullane	"
B. Roth.....	"

OFFICERS.

Name.	Residence.
C. A. Miller, M.D., Superintendent	Longview Asylum.
John H. Samuel, M.D., Assistant Physician	"
F. F. Hellman, M.D., "	"
W. H. Rowe, Steward	"

OHIO SOLDIERS' AND SAILORS' ORPHANS' HOME.

BOARD OF TRUSTEES.

Name.	Residence.
B. Burns, President	Mansfield.
A. M. Stark, Secretary	Xenia.
John Kirkpatrick	Cambridge.
B. C. Blackburn	Roscoe.
A. M. Stimson	Washington C. H.

OFFICERS.

Name.	Office.
George Keifer, M.D.	Superintendent.
Miss Henrietta Keifer	Matron.
David M. Brelsford	Steward.
C. B. Jones	Physician.
M. J. Hartley	Principal.
Miss Orilla Bryant	Teacher.
" Dollie Coffman	"
" Kate Clabby	"
" De Etta Griner	"
" L. Hutchins	"
" J. T. Vandervier	"
" Helen M. Nave	"
Mrs. Alice M. Painter	"
Miss Mollie V. Swindler	"
" Georgia G. Sinks	"
" Marion Woodrow	"
Mrs. S. M. Cox	Teacher of telegraphy.
" Carrie Boughers	Cottage matron.
" Fannie Beall	" "
" Mary Burroughs	" "
" M. J. Coburn	" "
" Susan M. Connor	" "
" Anna M. Dunbar	" "
" G. D. Dietz	" "
" Lib Edwards	" "
" Mary Ewing	" "
" Martha Foos	" "
" Harriet N. Gordon	" "
" Amanda Harper	" "
" Julia M. Houston	" "
" Mary Smith	" "
Miss Margaret Jones	" "
" Carrie Lloyd	" "
" Isadora B. Lashley	" "
" Amanda Stokes	" "
" Kate Sparger	" "
" Elizabeth Ward	" "
Mrs. Ephraim Hardesty	Hospital matron.
" Asa Keifer	House-keeper.

GIRLS' INDUSTRIAL HOME.

TRUSTEES.

Name.	Residence.
F. H. Thornhill, President	Richwood.
J. W. Watkins, Secretary	Delaware.
T. D. West	Sandusky.
H. R. Kelley	Galion.
R. R. Henderson	Delaware.

OFFICERS, TEACHERS, Etc.

Name.	Office.
R. Hills, M.D.	Superintendent.
Mrs. E. G. Hills	Matron.
Miss Millie D. Hackinson	Clerk.
" M. E. Singer	Assistant Matron.
" S. A. Humphrey	" "
" M. A. Gotham	" "
" Belle McCormick	" "
" V. H. Crary	" "
" Elvira Way	" "
Mrs. H. C. Eastman	" "
" E. M. Davis (Relief)	" "
Miss Mary L. Clark	Teacher.
" Jennie Francis	"
" Hattie Dunbar	"
Mrs. E. Edgerton	"
Miss Emma McCormick	"
" Josephine Cowgill	"

OHIO REFORM SCHOOL.

BOARD OF TRUSTEES.

Name.	Residence.
Jno. M. Pugh	Columbus.
Rev. B. W. Chidlaw	Cleves.
Chas. Mams	Belle Center.
Jacob Cherryholmes	Millersburg.
Henry J. Reinmund	Lancaster.

OFFICERS.

Name.	Office.	Residence.
John C. Hite	Superintendent	Lancaster.
Mrs. M. Hite	Matron	"
James H. Berry	Secretary	Cincinnati.

TOLEDO HOUSE OF REFUGE AND CORRECTION.*

BOARD OF TRUSTEES.

Name.	Residence.
A. G. Clark, President	Toledo.
F. B. Shoemaker, Treasurer	"
N. A. Marsh, Secretary	"
C. A. Kirkley	"
A. H. Newcomb	"

OFFICERS.

Name.	Office.	Residence.
Charles Douglass	Superintendent	Toledo.
John C. Kirkley	Deputy Superintendent	"
W. K. Mandeville	Teacher	"
Mrs. A. E. Douglass	Matron	
Miss Abbie M. Cogswell	Teacher	

*Not under State control.

OHIO PENITENTIARY.

BOARD OF TRUSTEES.

Name.	Residence.
A. D. Hefner, President	Columbus.
Charles Roose	Oak Harbor.
Isaac G. Peetrey	London.
Charles W. Boyd	Levanua.
Daniel McConville, Jr	Steubenville.

OFFICERS.

Name.	Office.	Residence.
James B. McWhorter	Warden	McWhorter P.O.
Joseph Quinn	Deputy Warden	Columbus.
James L. Andrews	Steward	"
S. L. Reeves	Clerk	Lancaster.
George Maul	Assistant Clerk	Sandusky.
John Burns, LL.D.	Chaplain	Cambridge.
W. H. Drury	Physician	Columbus.

OFFICERS OF COURTS.

SUPREME COURT.

Name.	Office.	Residence.	Term of office.	Term expires.
Hon. William White* ..	Chief Justice	Springfield	5 years	Feb. 9, 1879.
Hon. W. J. Gilmore	Judge	Eaton	"	" 9, 1880.
Hon. Geo. W. McIlvaine.	"	New Philadelphia..	"	" 9, 1881.
Hon. W. W. Boynton ..	"	Elyria	"	" 9, 1882.
Hon. Jno. W. Okey	"	Columbus	"	" 9, 1883.
Richard J. Fanning....	Clerk	"	3 "	" 6, 1881.
M. A. Fanning	Deputy Clerk ...	"	"	" 6, 1881.

SUPREME COURT COMMISSION.

Name.	Office.	Residence.	Term of office.	Term expires.
Hon. W. W. Johnson ...	Chief Judge	Ironton	3 years	Feb. 1, 1879.
Hon. Josiah Scott.....	Judge	Bucyrus	"	"
Hon. Luther Day	"	Ravenna	"	"
Hon. D. Thew Wright..	"	Cincinnati	"	"
Hon. T. Q. Ashburn ..	"	Batavia	"	"
Richard J. Fanning ...	Clerk <i>ex officio</i> ...	Columbus	"	"
Fred. Green	Deputy Clerk....	Cleveland	"	"
E. L. De Witt	Reporter .....	.....	"	"

COMMISSION TO REVISE AND CONSOLIDATE THE STATUTES.

Name.	Office.	Residence.
M. A. Dangherty	Commissioner	Columbus
John S. Brasee.....	"	Lancaster
Geo. B. Okey	"	Cincinnati
E. T. Hall	Clerk	Columbus
Amos Layman	"	"
T. W. Okey	"	Cincinnati
E. B. Yarnell	"	"
D. R. Jones	"	Granville

*Re-elected. Term of office commences February 9, 1879, and expires February 9, 1884.

UNITED STATES CIRCUIT COURT, NORTHERN OHIO. HELD AT CLEVELAND AND TOLEDO.

Name.	Office.	Residence.	Term of office.
Hon. Noah H. Swayne..	Justice Snp. Court .	Washington, D.C.	Life.
" John Baxter.....	Circuit Judge for Sixth Circuit	Knoxville, Tenn .	"
" Martin Welker....	District Judge	Wooster	"
Augustus J. Ricks, Esq.	Clerk	Massillon	At pleasure of Court.
Edward W. Page.....	Deputy Clerk.....	Cleveland	Appointed by Clerk.
Omar T. Case	"	Toledo	"
John C. Lee, Esq	District Attorney ..	"	4 yrs. from Mar. 1877.
Edward S. Meyer	Asst. Dist. Attorney.	Cleveland	"
Noyes B. Prentice	Marshal	"	4 yrs. from Feb. 1876.
S. W. Smead	Deputy Marshal ...	"	Appointed by Marshal.
John Odell.....	Crier	"	"
Henry Saunders.....	Crier	"	Appointed by Court.
George Tyler	Bailiff	"	"

UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF OHIO.

Name.	Office.	Residence.	Term of office.
Noah H. Swayne	Justice Supreme Court.	Washington, D. C.	Life.
John Baxter	Circuit Judge.....	Knoxville, Tenn.	"
Martin Welker	District Judge.....	Wooster	"
John C. Lee	District Attorney	Toledo	Four years.
Earl Bill	Clerk	Cleveland	Good behavior.
Noyes B. Prentice	Marshal	"	Four years.
Henry Saunders	Crier	"	Good behavior.
Charles H. Bill	Deputy Clerk.....	"	"
George Wyman	"	"	"
Omar T. Case	"	Toledo	"

The time of holding the Courts of the United States, fixed by law, are as follows :

The Circuit and District Courts for the Northern district of Ohio are held at Cleveland the first Tuesdays of January, April, and October.

The District Court is held at Toledo the second Tuesdays of June and December.

**UNITED STATES CIRCUIT COURT FOR THE SOUTHERN DISTRICT OF OHIO,
HELD AT CINCINNATI.**

Name.	Office.	Residence.	Term of office.
Noah H. Swayne	Justice Supreme Court .	Washington D. C ..	Life.
John Baxter	Circuit Judge	Knoxville, Tenn ...	"
Philip B. Swing	District Judge	Batavia	"
Thomas Ambrose	Clerk	Cincinnati	
Channing Richards ..	District Attorney	Glendale	Four years.
William R. Thrall.....	Marshal	Clifton	"

**UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF OHIO,
HELD AT CINCINNATI.**

Name.	Office.	Residence.	Term of office.
Philip B. Swing.....	District Judge	Batavia	Life.
Thomas Ambrose.....	Clerk	Cincinnati	
Channing Richards	District Attorney	Glendale	Four years.
William R. Thrall.....	Marshal	Clifton	"

SIXTY-THIRD GENERAL ASSEMBLY—1878-79.

SENATE.

Districts.	Names.	Counties.	Post-Office.	Occupation.
1	Armstrong, James M.	Hamilton	Cincinnati	Merchant.
26	Beebe, David Duncan	Portage and Summit	Hudson	Merchant and Banker.
27	Beer, Thomas M.	Medina, Lorain, Ashland, and Richland	Ashland	Merchant.
28	Benson, John H.	Knox, Morrow, Wayne, and Holmes	Cardington	Farmer.
29	Carlisle, Basil W.	Athens, Hocking, and Fairfield	Hooker Station	Farmer.
30	Carson, J. M.	Miami, Darke, and Shelby	Anna	Farmer.
12	Curtiss, Harvey W.	Cuyaboga	Chagrin Falls	Physician.
25	Dungan, Irvine	Adams, Pike, Scioto, and Jackson	Jackson C. H.	Attorney.
7	Fisher, John C.	Coshocton and Tuscarawas	Coshocton	Printer and Publisher.
18	Forrest, William T.	Hamilton	Cincinnati	Attorney.
1	Grove, George A.	Montgomery and Preble	Miamisburg	General Business.
3	Howland, W. P.	Ashtabula, Lake, and Geauga	Jefferson	Attorney.
24	Irvine, John	Washington, Morgan, and part of Noble	Harnar	Attorney.
14	Jackson, Lyman J.	Muskingum and Perry	New Lexington	Attorney.
15	Jackson, Thomas S.	Greene, Clinton, and Fayette	Westboro'	Farmer.
5	Johnston, Joseph R.	Mahoning and Trumbull	Canafield	Attorney.
23	Joy, David	Fulton, Hancock, Henry, Lucas, Putnam, and Wood	Findlay	Hotel Keeper.
33	Kelley, Lindsey	Lawrence, Gallia, Meigs, and Vinton	Ironton	Iron Manufacturer.
8	Krimmel, Charles F.	Franklin and Pickaway	Circleville	Attorney.
10	Lord, Henry C.	Hamilton	Riverside	Attorney.
1	Marsh, Theodore	Hamilton	Hartwell	Druggist.
6	McDonald, John C.	Highland and Ross	Lattasville	Farmer.
16	Owens, James W.	Delaware and Licking	Newark	Attorney.
30	Parker, C. S.	Huron, Erie, Sandusky, and Ottawa	Norwalk	Merchant.
22	Richards, Ross G.	Jefferson and Columbiana	Stenboenville	Attorney.

13	Sabin, Hylas	Logan, Union, Marion, and Hardin	Richwood	Real Estate Dealer.
32	Satzgaber, Gaylord M	Allen, Angellize, Defiance, Mercer, Paulding, Van Wert, and Williams	Van Wert	Attorney.
31	Seitz, John	Seneca, Crawford, and Wyandot	Tiffin	Farmer.
21	Sherrick, Johnson	Carroll and Stark	Canton	Merchant.
33	Steedman, James B	Fulton, Hancock, Henry, Lucas, Putnam, and Wood	Toledo	Editor.
2	Stokes, William H	Butler and Warren	Waynesville	Farmer.
4	Tyler, George P	Clermont and Brown	Russellville	Manufacturer.
20	Wagner, David	Belmont and Harrison	Bridgeport	Manufacturer.
19	Williams, Joseph B	Guernsey, Monroe, and part of Noble	Summitfield	Farmer and Physician.
11	Wilson, George W	Clarke, Champaign and Madison	London	Attorney.

SIXTY-THIRD GENERAL ASSEMBLY—Continued.

HOUSE OF REPRESENTATIVES

Names.	Counties.	Post-office.	Occupation.
Achaner, Herman F	Muskingum	Zanesville	Attorney.
Alexander, Ross J	Belmont	Bridgeport	Attorney.
Baker, Michael L	Allen	South Warsaw	Farmer.
Bloom, Samuel S	Richland	Shelby	Att'y and Editor.
Bohl, Henry	Washington	Marietta	Ins. & R'l Es. Agt.
Booth, Henry J	Franklin	Columbus	Attorney.
Boyce, David	Columbiana	East Liverpool	Banker and man'f.
Brown, Lloyd S	Hamilton	Reading	Farmer.
Brown, David I	Putnam	Ottawa	Attorney.
Bull, John W	Ashland	Loudonville	Farmer.
Carpenter, Jeremiah L	Meigs	Lee P. O., Athens co.	Farmer.
Carter, F. M	Williams	Bryan	Druggist.
Clough, Horace P	Bntler	Middletown	Contractor.
Conkright, W. H	Union	Richwood	Banker.
Covert, John C	Cuyahoga	Cleveland	Editor.
Cowgill, Thomas A	Champaign	Kennard	Farmer.
Crosley, Daniel	Montgomery	Centreville	Farmer.
Crosson, James	Clermont	Edenton	Farmer.
Creamer, Michael S	Fayette	Washington C. H	Attorney.
Dalzell, James M	Noble	Caldwell	Attorney.
Danford, Harvey	Belmont	Pilcher	Farmer.
Dawson, H. C	Highland	Dodsonville	Farmer.
Deinpcy, Marshall L	Cnyahoga	Warrensville	Farmer.
Dodds, Milo G	Hamilton	Cincinnati	Insurance Agent.
Douglass, James	Erie	Ceylon	Farmer.
Dow, Duncan	Logan	Bellefontaine	Attorney.
Dunham, A	Sandusky	Woodville	Farmer.
Edwards, David J	Trumbull	Hubbard	Merchant.
Elliott, David H	Delaware	Snnbury	Farmer.
Ellis, Lorenzo	Ottawa	Elliston	Merchant.
Estill, James A	Holmes	Millersburg	Editor.
Eylar, Joseph W	Adams	West Union	Editor.
Fenton, John	Fulton	AI	Farmer.
Foraythe, Jesse	Harrison	Tippecanoe	Farmer.
Foster, George H	Cuyahoga	Cleveland	Attorney.
Greene, John W	Greene	Fairfield	Physician.
Groschner, Herman C	Henry	Napoleon	Merchant.
Guthery, John D	Marion	La Rne	Farmer.
Haley, John	Hardin	Kenton	Farmer.
Hardy, John	Coshocton	Oxford Station	Farmer.
Hardy, Henry	Defiance and Paulding	Defiance	Attorney.
Harmon, Charles R	Portage	Anrora	Merchant.
Hart, Abel	Knox	Mt. Vernon	Attorney.
Hayman, Richard H	Scioto	Portsmouth	Farmer.
Hendrick, Henry H	Montgomery	Dayton	Brass Finisher.
Herrick, Lucius	Lorain	Wellington	Farmer.
Hitchcock, Peter	Geauga	Burton	Farmer.
Hostetter, S. A	Darke	Ansonia	Druggist.
Hume, Hubbard	Shelby	Sidney	Farmer.
Jessup, William	Hamilton	Cleves	Farmer.
Johnson, William	Tnscarawas	Uhrichsville	Attorney.
Kellogg, Harvey	Lucas	Toledo	Farmer.
Kerr, Samuel C	Columbiana	Sallneville	Farmer.
Klimper, Fred	Hamilton	Cincinnati	Merchant.
Leggett, Thomas	Carroll	Leesville	Farmer.
Levering, Allen	Morrow	Mt. Gilead	Banker.
Loder, William	Hamilton	Cincinnati	Merchant.
Lovelace, Benjamin F	"	"	Shoemaker.
Lucecock, Thomas S	Guernsey	Kimbolton	Merchant.
Mack, Hiram H	Summit	Bath	Farmer.
Mackey, Robert	Mahoning	Youngstown	Farmer.

SIXTY-THIRD GENERAL ASSEMBLY—Continued.

HOUSE OF REPRESENTATIVES.

Names.	Counties.	Post-office.	Occupation.
McCoy, Charles W	Lawrence	Sheridan Coal Works	Farmer.
McCoy, Thomas A	Wayne	Wooster	Farmer.
Marsh, Archelaus D	Mercer	Celina	Attorney.
Mauzy, Henry	Monroe	Clarington	Teacher.
Meuser, Jacob G	Crawford	Galion	Attorney.
Monahan, Arthur B (a) ..	Jackson	Jackson C. H	Physician.
Morrey, John C	Morgan	Chester Hill	Merchant.
Neal, James E	Butler	Hamilton	Attorney.
Norton, James A	Seneca	Bettsville	Physician.
Oglevee, John F	Clarke	Springfield	Attorney.
Paine, James B (b)	Jackson	Jackson C. H	Attorney.
Palmer, L. A.	Cuyahoga	Rockport	Farmer.
Parker, Eli B	Brown	Mt. Orab	Attorney.
Perkins, E. S.	Medina	Weymouth	Farmer.
Poe, Joseph M.	Cuyahoga	Brooklyn	Attorney.
Quinby, Isalah W	Clinton	Wilmingon	Attorney.
Quinn, Homer S	Madison	West Jefferson	Physician.
Reed, William H	Ross	Chillicothe	Lumber Merchant.
Reed, Edmund A	Trumbull	Vernon	Farmer.
Rimer, James W	Van Wert	Van Wert	Surveyor.
Sage, Edwin R	Wood	Prairie Depot	Physician.
Sawyer, Lewis C	Auglaize	St. Mary's	Attorney.
Scott, Thomas B	Jefferson	Mingo	Farmer.
Seifert, Abraham	Fairfield	North Berne	Farmer.
Sextro, Joseph G	Hamilton	Carthage	Manufacturer.
Sheets, Henry	Hancock	Arcadia	Farmer.
Smead, James P	Lake	Madison	Farmer.
Smith, Gilbert	Washington	Barlow	Farmer.
Stubbs, D. C.	Preble	West Elkton	Farmer.
Sturgeon, David B	Lucas	Toledo	Physician.
Sullivan, John	Hamilton	California	
Sullivan, Samuel	Miami	Tadmor	Farmer.
Swaim, Andrew J	Vinton	McArthur	Stock Dealer.
Thorp, Freeman	Ashtabula	Geneva	Artist.
Townsend, Charles	Athens	Athens	Attorney.
Trovinger, Curtis	Perry	Thornville	Farmer.
Turner, James (c)	Montgomery	Dayton	
Tyler, Joel L	Licking	Alexandria	Farmer.
Tyler, Willard D	Wyandot	Upper Sandusky	Attorney.
Van Cleaf, Aaron R	Pickaway	Circleville	Editor.
Wales, Thomas M	Warren	Harveysburg	Farmer.
Washburn, John W	Pike	Waverly	Attorney.
Wasson, S. Y.	Gallia	Gallipolis	Merchant.
White, Clark	Franklin	Columbus	Farmer.
Williams, Richard G	Stark	Alliance	Druggist.
Williamson, John A	Huron	Norwalk	Attorney.
Wolf, Salem S	Hocking	South Perry	Farmer.
Worley, Daniel	Stark	Canton	Teacher.
Wright, Irvin B	Hamilton	Cincinnati	Attorney.

(a) Died January 20, 1878. (b) Elected to fill vacancy. (c) Vice O'Connor, expelled.

JUDGES OF THE COURT OF COMMON PLEAS—1878-1879.

District.	Sub-div.	Counties.	Names and post-offices.	Term.	
				Commenced.	Expires.
1	{	Hamilton	Fayette Smith, Cincinnati	Dec. 2, 1878	Dec. 2, 1883
			Fred. W. Moore, "	Dec. 2, 1878	Dec. 2, 1883
			William L. Avery, "	Feb. 12, 1877	Feb. 12, 1882
			Joseph Cox, "	Feb. 12, 1877	Feb. 12, 1882
			Nicholas Longworth, "	Feb. 12, 1877	Feb. 12, 1882
			Robert A. Johnston, "	Nov. 6, 1876	Nov. 6, 1881
			Jacob Burnet, "	Nov. 6, 1876	Nov. 6, 1881
	{	Butler	Alex. F. Hume, Hamilton	Feb. 12, 1877	Feb. 12, 1882
		Preble	Henderson Elliott, Dayton	Nov. 6, 1876	Nov. 6, 1881
	2	Montgomery ..	David L. Meeker, Greenville* ..	May 11, 1873	May 13, 1878
2	{	Champaign	Henry H. Williams, Troy†	Dec. 3, 1877	Dec. 3, 1882
		Miami			
	{	Warren	James M. Smith, Lebanon	Feb. 12, 1877	Feb. 12, 1882
		Clinton	Azariah W. Doan, Wilmington ..	April 12, 1875	April 12, 1880
		Greene	Moses Barlow, Xenia	Feb. 9, 1874	Feb. 9, 1879
		Clark	James S. Goode, Springfield ...	April 12, 1875	April 12, 1880
		Clarke	James E. Hawes, Xenia	Feb. 9, 1879	Feb. 9, 1884
	{	Logan	John L. Porter, Marysville	Feb. 12, 1877	Feb. 12, 1882
		Union			
		Hardin			
	{	Shelby	Edward M. Phelps, St. Mary's ..	May 10, 1874	May 10, 1879
		Anglaize			
		Allen			
		Mercer			
		Van Wert			
3	{	Putnam	John J. Moore, Ottawa	May 10, 1879	May 10, 1884
		Paulding			
		Defiance			
		Williams			
		Fulton			
	{	Henry	Selwyn N. Owen, Bryan	Feb. 12, 1877	Feb. 12, 1882
		Seneca			
		Hancock			
		Wyandot			
		Crawford			
4	{	Marion	Thomas Beer, Bucyrus	Feb. 12, 1877	Feb. 12, 1882
		Wood			
		Lucas			
		Ottawa			
		Sandusky			
	{	Erie	Wm. F. Lockwood, Toledo	Nov. 11, 1878	Nov. 11, 1883
		Huron			
		Lorain			
		Medina			
		Summit			
5	{	Cuyahoga	Darius Cadwell, Cleveland* ...	Feb. 9, 1874	Feb. 9, 1879
			Jessie H. McMath, "	Nov. 1, 1875	Nov. 1, 1880
			James M. Jones, "	Nov. 1, 1875	Nov. 1, 1880
			Edwin T. Hamilton, "	Nov. 1, 1875	Nov. 1, 1880
			Gershon M. Barber, "	Nov. 1, 1875	Nov. 1, 1880
	{	Clermont	Samuel B. Prentiss, "	Feb. 12, 1877	Feb. 12, 1882
			Allen T. Cowen, Batavia	Feb. —, 1878	Feb. —, 1883
			David Tarbill, Georgetown	Feb. 12, 1877	Feb. 12, 1882

*Re-elected October, 1878.

†Elected to fill vacancy caused by death of George D. Burgess.

COMMON PLEAS JUDGES—Continued.

District.	Sub-div.	Counties.	Names and post-offices.	Term.	
				Commenced.	Expires.
5	2	Ross	Thad. A. Minshall, Chillicothe †	Oct. —, 1876	Feb. 12, 1879
		Highland	Samuel F. Steel, Hillsborough.	Feb. 12, 1877	Feb. 12, 1882
5	3	Fayette	Ed. F. Bingham, Columbus ...	May 11, 1878	May 11, 1883
		Franklin	John L. Green, "	Feb. 12, 1877	Feb. 12, 1882
5	4	Pickaway	Eli P. Evans, "	May —, 1878	May —, 1883
		Madison	S. W. Courtright, Circleville ..	May 10, 1875	May 10, 1880
6	1	Licking	Samuel M. Hunter, Newark	Feb. 12, 1877	Feb. 12, 1882
		Knox	John Adams, Mt. Vernon	Feb. 12, 1877	Feb. 12, 1882
6	2	Delaware	Moses R. Dickey, Mansfield ...	Feb. 12, 1877	Feb. 12, 1882
		Morrow	Thomas J. Kenney, Ashland ..	Sept. 10, 1874	Feb. 10, 1879
6	3	Richland	Chas. C. Parsons, Sr., Wooster.	Feb. 12, 1877	Feb. 12, 1882
		Ashland	C. F. Voorhees, Millersburg	Feb. 12, 1878	Feb. 12, 1883
7	1	Wayne	Coshocton		
		Fairfield	Silas H. Wright, Lancaster	Feb. 12, 1877	Feb. 12, 1882
7	2	Perry	Hocking		
		Jackson	Porter Du Hadway, Jackson ..	Feb. 9, 1874	Feb. 9, 1879
7	3	Vinton	J. J. Harper, Portsmouth	Feb. 12, 1877	Feb. 12, 1882
		Pike	James Tripp, Jackson C H	Feb. 9, 1879	Feb. 9, 1884
7	3	Scioto	Lawrence		
		Gallia	Samuel S. Knowles, Marietta ..	Feb. 12, 1878	Feb. 12, 1883
8	1	Meigs	Athens	Feb. 12, 1877	Feb. 12, 1882
		Washington ..	Jos. P. Bradbury, Pomeroy		
8	2	Muskingum ..	William H. Frazier, Caldwell ..	Feb. 12, 1877	Feb. 12, 1882
		Morgan	Lucius P. Marsh, Zanesville ...	Aug. 3, 1874	Aug. 3, 1879
8	3	Noble	Wm. H. Ball, "	Aug. 3, 1879	Aug. 3, 1884
		Guernsey	Belmont		
8	4	Monroe	William Okey, Woodsfield	Feb. 12, 1877	Feb. 12, 1882
		Jefferson	J. Patrick, Jr. N. Philadelphia	Feb. 12, 1877	Feb. 12, 1882
9	1	Harrison	Tuscarawas ..		
		Stark	Seraphim Meyer, Canton	Feb. 12, 1877	Feb. 12, 1882
9	2	Trumbull	Philo B. Conant, Ravenna	Oct. 31, 1873	Oct. 31, 1878
		Portage	Ezra B. Taylor, Warren	Feb. 12, 1878	Feb. 12, 1883
9	3	Mahoning	William T. Spear, Warren	Oct. 31, 1878	Oct. 31, 1883
		Geauga	Laban S. Sherman, Ashtabula ..	Feb. 12, 1877	Feb. 12, 1882
9	4	Lake	H. B. Woodbury, Jefferson	Jan. 25, 1876	Jan. 25, 1881
		Ashtabula	Carroll		
9	5	Columbiana ..	Peter A. Laubie, Salem	Nov. 1, 1875	Nov. 1, 1880

† Re-elected October, 1878.

TIMES OF HOLDING COURTS IN OHIO IN 1879.

FIRST DISTRICT.

District Court.

Hamilton, January 6, April 7, October 6.

Common Pleas.

Hamilton, January 6, May 5, October 6.

SECOND DISTRICT.

District Court.

Butler, March 31; Clinton, April 14; Warren, May 12; Champaign, May 5; Montgomery, April 21; Clarke, March 31; Greene, April 7; Darke, April 21; Preble, April 28; Miami, May 19.

Common Pleas.

Butler, January 13, May 19, October 20.
Montgomery, January 6, May 19, October 20.
Darke, January 13, May 12, October 20.
Clinton, January 6, May 12, October 20.
Warren, January 13, June 2, October 27.
Clarke, January 13, May 26, October 20.
Greene, January 13, May 26, October 20.
Champaign, January 13, May 12, October 20.
Miami, February 17, June 2, November 17.
Preble, March 3, June 9, December 1.

THIRD DISTRICT.

District Court.

Allen, April 10; Auglaize, March 31; Crawford, July 10; Defiance, June 18; Fulton, June 24; Hardin, March 25; Hancock, June 13; Henry, June 21; Logan, March 18; Marion, July 15; Mercer, April 1; Paulding, June 16; Putnam, April 3; Seneca, June 10; Shelby, March 28; Union, March 11; Van Wert, April 7; Williams, June 25; Wood, June 28; Wyandot, July 8.

Common Pleas.

Allen, January 6, March 31, September 29.
Auglaize, January 13, April 7, September 8.
Crawford, January 7, April 21, September 9.
Defiance, January 13; May 12, September 29.
Fulton, February 10, June 9, October 27.
Hardin, January 7, April 1, October 7.

Hancock, January 7, April 21, September 9.
 Henry, January 27, May 26, October 15.
 Logan, February 25, May 13, November 4.
 Marion, February 18, June 9, October 28.
 Mercer, March 17, May 5, December 1.
 Paulding, January 7, May 6, September 23.
 Putnam, February 10, April 28, September 8.
 Seneca, February 3, May 12, October 8.
 Shelby, March 3, May 19, October 6.
 Union, February 3, April 21, September 8.
 Van Wert, February 17, April 21, November 10.
 Williams, February 24, June 18, November 10.
 Wood, February 24, June 9, November 4.
 Wyandot, January 28, May 19, October 8.

FOURTH DISTRICT.

District Court.

Erie, April 14; Huron, April 4; Lucas, March 17; Sandusky, April 24; Ottawa, April 28; Lorain, March 31; Medina, March 27; Summit, March 17; Cuyahoga, March 17, September 1.

Common Pleas.

Erie, January 27, May 26, October 27.
 Huron, February 3, May 26, November 24.
 Lucas, January 2, April 28, September 15.
 Sandusky, January 6, March 3, October 20.
 Ottawa, January 6, May 5, October 6.
 Lorain, January 27, May 26, October 27.
 Medina, January 6, May 5, September 22.
 Summit, January 13, May 12, September 22.
 Cuyahoga, January 6, March 3, May 5, September 1, November 3.

FIFTH DISTRICT.

District Court.

Madison, March 25; Fayette, April 23; Clermont, September 16; Franklin, March 29, October 15; Adams, September 2; Highland, September 22; Pickaway, April 21; Brown, September 5; Ross, September 27.

Common Pleas.

Adams, January 7, May 6, September 9.
 Clermont, January 28, May 27, October 21.
 Brown, January 28, May 27, October 21.
 Highland, January 7, May 6, October 21.
 Ross, January 7, May 6, October 21.
 Fayette, February 11, June 3, November 18.
 Franklin, January 13, April 14, September 15.
 Madison, January 7, May 6, October 21.
 Pickaway, February 4, June 3, November 18.

ANNUAL REPORT.

SIXTH DISTRICT.

District Court.

Delaware, June 30; Knox, July 7; Licking, June 16; Ashland, June 16; Morrow, June 23; Richland, July 7; Coshocton, June 5; Holmes, June 2; Wayne, June 9.

Common Pleas.

Delaware, January 6, April 1, October 13.
 Knox, February 17, May 5, November 17.
 Licking, January 6, April 8, October 20.
 Ashland, March 3, August 18, November 10.
 Morrow, February 10, May 5, October 13.
 Richland, March 24, September 1, December 1.
 Coshocton, February 11, April 22, October 14.
 Holmes, January 13, March 31, September 1.
 Wayne, February 17, August 18, December 1.

SEVENTH DISTRICT.

District Court.

Washington, April 2; Gallia, April 11; Scioto, April 19; Perry, September 2; Hocking, September 10; Athens, September 15; Meigs, April 7; Lawrence, April 15; Pike, April 28; Fairfield, September 5; Jackson, September 23; Vinton, September 19.

Common Pleas.

Athens, February 10, June 2, November 10.
 Fairfield, March 17, June 19, December 1.
 Gallia, February 10, May 26, November 3.
 Hocking, February 17, May 19, November 10.
 Jackson, January 3, May 5, September 29.
 Lawrence, February 25, June 3, October 23.
 Meigs, January 20, May 5, October 16.
 Perry, January 20, April 23, October 20.
 Pike, February 24, June 16, November 10.
 Scioto, January 20, May 5, September 29.
 Vinton, February 3, May 26, October 20.
 Washington, January 13, May 5, October 15.

EIGHTH DISTRICT.

District Court.

Belmont, April 8; Jefferson, April 15; Harrison, August 27; Tuscarawas, September 1; Guernsey, September 5; Monroe, September 15; Noble, September 19; Morgan, September 24; Muskingum, September 29.

Common Pleas.

Muskingum, January 13, April 28, November 3.
 Morgan, March 11, June 10, October 16.
 Noble, January 20, May 5, October 20.
 Guernsey, February 18, May 27, November 11.

Belmont, February 4, May 20, November 11.
 Monroe, January 13, April 28, October 16.
 Jefferson, February 24, June 9, December 1.
 Tuscarawas, January 27, May 19, November 3.
 Harrison, January 6, April 28, October 15.

NINTH DISTRICT.

District Court.

Trumbull, April 3; Portage, April 21; Lake, March 27; Geauga, March 31; Ashtabula, March 17; Mahoning, March 17; Columbiana, April 14; Carroll, April 10; Stark, April 3.

Common Pleas.

Carroll, January 13, May 5, September 15.
 Stark, January 13, May 5, October 13.
 Columbiana, February 3, May 19, October 13.
 Mahoning, January 13, May 5, September 8.
 Trumbull, February 10, May 26, October 13.
 Portage, January 13, May 5, September 8.
 Lake, February 10, May 26, October 13.
 Geauga, January 13, May 5, September 15.
 Ashtabula, January 13, May 5, September 15.

APPORTIONMENT—GENERAL ASSEMBLY OF OHIO—1871—1881.

HOUSE OF REPRESENTATIVES.

POPULATION OF STATE, *2,665,118; RATIO, 26,651; ONE-HALF RATIO, 13,326; ONE AND THREE-FOURTHS RATIOS, 46,639; TWO FULL RATIOS, 53,302.

Counties.	Population.	Fraction over full ratio.	Fraction multiplied by five.	Number added on account of fraction.	Terms.					Total for the decade—1871-1881.
					1st	2d.	3d.	4th	5th.	
Adams	20,750	.....	.....	.....	1	1	1	1	1	5
Allen	23,623	.....	.....	.....	1	1	1	1	1	5
Ashland	21,933	.....	.....	.....	1	1	1	1	1	5
Ashtabula	32,518	5,867	29,335	1	1	1	1	1	2	6
Athens	21,872	.....	.....	.....	1	1	1	1	1	5
Auglaize	20,040	.....	.....	.....	1	1	1	1	1	5
Belmont	39,715	13,064	65,620	2	1	1	2	2	1	7
Brown	30,802	4,151	20,755	.....	1	1	1	1	1	5
Butler	39,912	13,261	66,305	2	1	1	2	2	1	7
Carroll	14,491	.....	.....	.....	1	1	1	1	1	5
Champaign	24,188	.....	.....	.....	1	1	1	1	1	5
Clarke	32,070	5,419	27,095	1	1	1	1	1	2	6
Clermont	34,269	7,618	34,090	1	1	1	1	1	2	6
Clinton	21,915	.....	.....	.....	1	1	1	1	1	5
Columbiana	38,299	11,648	58,210	2	1	1	2	2	1	7
Coshocton	23,600	.....	.....	.....	1	1	1	1	1	5
Crawford	25,556	.....	.....	.....	1	1	1	1	1	5
Cuyahoga	132,012	25,408	127,040	4	5	5	5	5	4	24
Darke	32,131	5,480	27,400	1	1	1	1	1	2	6
Defiance .. 15,719 }	24,263	.....	.....	.....	1	1	1	1	1	5
Paulding .. 8,544 }		.....	.....	.....	1	1	1	1	1	5
Delaware	25,175	.....	.....	.....	1	1	1	1	1	5
Erie	24,188	1,537	7,685	.....	1	1	1	1	1	5
Fairfield	31,139	4,488	22,410	.....	1	1	1	1	1	5
Fayette	17,170	.....	.....	.....	1	1	1	1	1	5
Franklin	63,019	9,117	48,585	1	2	2	2	2	3	11
Fulton	17,879	.....	.....	.....	1	1	1	1	1	5
Gallia	25,545	.....	.....	.....	1	1	1	1	1	5
Geauga	14,200	.....	.....	.....	1	1	1	1	1	5
Greene	28,052	1,401	7,005	.....	1	1	1	1	1	5
Guernsey	23,798	.....	.....	.....	1	1	1	1	1	5
Hamilton	260,370	20,511	102,555	3	10	10	10	9	9	48
Hancock	23,847	.....	.....	.....	1	1	1	1	1	5
Hardin	18,714	.....	.....	.....	1	1	1	1	1	5
Harrison	18,682	.....	.....	.....	1	1	1	1	1	5
Henry	14,028	.....	.....	.....	1	1	1	1	1	5
Highland	29,103	2,452	12,260	.....	1	1	1	1	1	5
Hocking	17,925	.....	.....	.....	1	1	1	1	1	5
Holmes	18,178	.....	.....	.....	1	1	1	1	1	5
Huron	28,532	1,881	9,405	.....	1	1	1	1	1	5
Jackson	21,759	.....	.....	.....	1	1	1	1	1	5
Jefferson	29,188	2,537	12,685	.....	1	1	1	1	1	5
Knox	26,333	.....	.....	.....	1	1	1	1	1	5

APPORTIONMENT—HOUSE OF REPRESENTATIVES—Continued.

Counties.	Population.	Fraction over full ratio.	Fraction multiplied by five.	Number added on account of fraction.	Terms.					Total for the decade—1871-1881.
					1st.	2d.	3d.	4th.	5th.	
Lake	15,935				1	1	1	1	1	5
Lawrence	31,380	4,729	23,645		1	1	1	1	1	5
Licking	36,122	9,471	47,355	1	1	1	1	1	2	6
Logan	23,028				1	1	1	1	1	5
Lorain	30,308	3,657	18,285		1	1	1	1	1	5
Lucas	46,783				2	2	2	2	2	10
Madison	15,133				1	1	1	1	1	5
Maioning	31,001	4,350	21,750		1	1	1	1	1	5
Marion	16,184				1	1	1	1	1	5
Medina	20,092				1	1	1	1	1	5
Meigs	31,465	4,814	24,070		1	1	1	1	1	5
Mercer	17,254				1	1	1	1	1	5
Miami	32,740	6,989	30,445	1	1	1	1	1	2	6
Monroe	25,780				1	1	1	1	1	5
Montgomery †	64,006	10,704	53,520	2	2	2	3	3	2	12
Morgan	20,363				1	1	1	1	1	5
Morrow	18,583				1	1	1	1	1	5
Muskingum	44,887	18,236	91,180	3	2	2	2	1	1	8
Noble	19,949				1	1	1	1	1	5
Ottawa	13,361				1	1	1	1	1	5
Perry	18,453				1	1	1	1	1	5
Pickaway	24,875				1	1	1	1	1	5
Pike	15,441				1	1	1	1	1	5
Portage	24,577				1	1	1	1	1	5
Preble	21,809				1	1	1	1	1	5
Putnam	17,083				1	1	1	1	1	5
Richland	32,516	5,865	29,325	1	1	1	1	1	2	6
Ross	37,097	10,446	52,230	1	1	1	1	1	2	6
Sandusky	25,504				1	1	1	1	1	5
Scioto	29,302	2,651	13,255		1	1	1	1	1	5
Seneca	30,828	4,177	20,885		1	1	1	1	1	5
Shelby	20,748				1	1	1	1	1	5
Stark	52,508				2	2	2	2	2	10
Summit	34,674	8,023	40,115	1	1	1	1	1	2	6
Trumbull	38,659	12,008	60,040	2	1	1	2	2	1	7
Tuscarawas	33,840	7,189	35,945	1	1	1	1	1	2	6
Union	18,730				1	1	1	1	1	5
Van Wert	15,824				1	1	1	1	1	5
Vinton	15,027				1	1	1	1	1	5
Warren	26,690	39	195		1	1	1	1	1	5
Washington	40,609	13,958	67,790	2	1	1	2	2	1	7
Wayne	35,082	8,431	42,155	1	1	1	1	1	2	6
Williams	20,991				1	1	1	1	1	5
Wood	24,596				1	1	1	1	1	5
Wyandot	18,554				1	1	1	1	1	5

* Actual population, 2,663,260. Apportionment was made before official count was received from Washington.

† Fraction over four full ratios.

‡ Fraction over two full ratios.

§ Fraction over nine full ratios.

APPORTIONMENT—SENATE—Continued.

POPULATION OF STATE, 2,955,118; FULL RATIO, 76,146; THREE-FOURTHS RATIO, 57,110.

Districts.	Counties.	Population.	Population of district.	Fraction over full ratio.	Fraction multiplied by five.	Number added for fraction.	Terms.					Total.
							1st.	2d.	3d.	4th.	5th.	
1	Hamilton	260,370	260,370	*31,932	159,650	2	3	3	4	4	3	17
2	Butler	30,912										
	Warren	24,690	66,602	.....	.....	.....	1	1	1	1	1	5
3	Montgomery ..	64,006										
	Preble	21,809	85,815	9,669	48,345	.....	1	1	1	1	1	5
4	Clermont	34,269										
	Brown	30,802	65,071	.....	.....	.....	1	1	1	1	1	5
*5	Greene	28,052										
	Clinton	21,915	67,137	.....	.....	.....	1	1	1	1	1	5
	Fayette	17,170										
6	Highland	29,103	66,200	.....	.....	.....	1	1	1	1	1	5
	Ross	37,097										
7	Adams	20,750	57,252	11,106	55,530	.....	1	1	1	1	1	5
	Pike	15,451										
	Scioto	24,402	103,417	27,271	136,355	1	1	1	1	1	2	6
	Jackson	21,759										
8	Lawrence	31,380	70,936	.....	.....	.....	1	1	1	1	1	5
	Gallia	25,545										
	Meigs	31,465	71,891	.....	.....	.....	1	1	1	1	1	5
	Vinton	15,077										
9	Athens	31,872	70,936	.....	.....	.....	1	1	1	1	1	5
	Hocking	17,925										
	Fairfield	31,139	87,994	11,758	58,740	.....	1	1	1	1	1	5
10	Franklin	63,019										
	Pickaway	24,875	71,891	.....	.....	.....	1	1	1	1	1	5
11	Clarke	32,070										
	Champaign ..	24,188	85,619	9,473	47,365	.....	1	1	1	1	1	5
	Madison	14,633										
12	Miami	32,740	76,656	510	2,550	.....	1	1	1	1	1	5
	Darke	32,131										
	Shelby	20,748	70,947	.....	.....	.....	1	1	1	1	1	5
13	Logan	23,028										
	Union	18,730	76,656	510	2,550	.....	1	1	1	1	1	5
	Marion	16,184										
	Hardin	18,714	70,947	.....	.....	.....	1	1	1	1	1	5
14	Washington ..	40,609										
	Morgan	20,363	70,947	.....	.....	.....	1	1	1	1	1	5
	Noble (part) ..	9,975										
15	Muskingum ...	44,887	63,340	.....	.....	.....	1	1	1	1	1	5
	Perry	14,453										

APPORTIONMENT—SENATE—Continued.

Districts.	Counties.	Population.	Population of district.	Fraction over ratio	Fraction multiplied by five.	Number added for fraction.	Terms.					Total.
							1st.	2d.	3d.	4th.	5th.	
16	Delaware	25,175	61,297	1	1	1	1	1	5
	Licking	35,122										
17	Knox	26,333										
	Morrow	18,583	98,176	22,030	110,150	1	1	1	1	1	2	6
and	Total 17th dis.	44,916										
28	Wayne	35,082										
	Holmes	18,178	57,440	1	1	1	1	1	5
	Total 23th dis	53,260										
18	Coshocton	23,600										
	Tuscarawas...	33,840	59,552	1	1	1	1	1	5
19	Guernsey	23,798										
	Monroe	25,780										
	Noble (part)..	9,974	58,397	1	1	1	1	1	5
20	Belmont	39,715										
	Harrison	18,682										
21	Carroll	14,491	66,999	1	1	1	1	1	5
	Stark	52,508										
22	Jefferson	29,188										
	Columbiana ..	38,239	69,660	1	1	1	1	1	5
23	Trumbull.....	38,659										
	Mahoning	31,001										
24	Ashtabula	32,518	62,653	1	1	1	1	1	5
	Lake	15,935										
	Geauga	14,200										
25	Cuyahoga	132,012	132,012	55,866	279,330	3	2	2	2	1	1	8
26	Portage	24,577										
	Summit	34,674										
27	Medina	20,092	59,251	1	1	1	1	1	5
	Lorain	30,308										
and	Total 27th dis.	50,400										
29	Ashland	21,933	104,849	28,703	143,515	1	1	1	1	1	2	6
	Richland	32,516										
	Total 29th dis.	54,449										
30	Huron.....	28,532	95,585	19,439	97,195	1	1	1	1	1	2	9
	Erie	28,188										
	Sandusky.....	25,504										
	Ottawa	13,361										

APPORTIONMENT—SENATE—Continued.

Districts.	Counties.	Population.	Population of district.	Fraction over full ratio.	Fraction multiplied by five.	Number added for fraction.	Terms.					Total.
							1st.	2d.	3d.	4th.	5th.	
31	Seneca	30,828	74,933	-----	-----	-----	1	1	1	1	1	5
	Crawford	25,566										
	Wyandot	18,554										
32	Allen	23,623	121,905	45,849	229,245	3	2	2	2	1	1	8
	Anglaize	20,040										
	Defiance	17,719										
	Mercer	17,254										
	Paulding	8,544										
	Van Wert	15,824										
	Williams	20,991										
33	Fulton	17,769	144,126	67,950	339,900	4	2	2	2	2	1	9
	Hancock	23,847										
	Henry	14,028										
	Lucas	46,783										
	Putnam	17,083										
	Wood	24,596										

* Fraction over three full ratios.

ROSTER
OF
COUNTY OFFICERS.

COUNTY OFFICERS.

Counties.	County Seats.	Probate Judges.	Clerks of Courts.
Adams	West Union	James L. Coryell	John P. Leedom.
Allen	Lima	George W. Overmyer ..	Daniel L. Crites.
Ashland	Ashland	John Taylor	John T. McCray.
Ashtabula	Jefferson	E. J. Betts	Asa Laub.
Athens	Athens	Thomas L. Minton	George W. Baker.
Anglaize	Wapakoneta	Levi Hamaker	C. P. Davis.
Belmont	St. Clairsville	Chandler W. Carroll ..	Alex. C. Darrah.
Brown	Georgetown	John P. Bieln	John Lafabre.
Butler	Hamilton	Benjamin Thomas	Jervis Hargitt.
Carroll	Carrollton	C. C. Adams	Richard H. Fouts.
Champaign	Urbana	Alex. F. Vance	George T. Seibert.
Clarke	Springfield	John C. Miller	Edward P. Torbert.
Clermont	Batavia	James S. Brunaugh ..	John S. Parrott.
Clinton	Wilmington	John Matthews	I. N. Harlan.
Columbiana	New Lisbon	Simon Wisden	William Monaghan.
Coshocton	Coshocton	Alexander Hanlon	Israel Dillon.
Crawford	Bacyrus	Shannon Clements	David C. Cahill.
Cnyahoga	Cleveland	Daniel R. Tilden	Wilbur F. Hinman.
Darke	Greenville	John A. Jobes	Wesley Gorsuch.
Defiance	Defiance	Jacob J. Greene	Edwin Phelps.
Delaware	Delaware	Frank B. Sprague	John T. Evans.
Erie	Sandusky City	Elisha M. Colver	Fred. W. Alvord.
Fairfield	Lancaster	William L. Rigby	George W. Graybill.
Fayette	Washington C. H. ..	J. B. Priddy	Elmer Welsheimer.
Franklin	Columbus	John M. Pugh	Harvey Cashatt.
Fulton	Wauseon	Caleb M. Keith	Albert Deyo.
Gallia	Gallipolis	Henry A. Kent	John L. Guy.
Geauga	Chardon	Henry K. Smith	William N. Keeny.
Greene	Xenia	James W. Harper	John Orr.
Guernsey	Cambridge	Eugene C. Riggs	Robert Hammond.
Hamilton	Cincinnati	Isaac B. Matson	Lewis G. Bernard.
Hancock	Pindlay	Samuel B. Huffman	Scott W. Preble.
Hardin	Kenton	John R. Selders	William W. Fleming.
Harrison	Cadiz	Amon Lemmon	A. W. Scott.
Henry	Napoleon	James G. Italy	Oscar E. Barnes.
Highland	Hillsborough	James C. Norton	J. Martin Hughey.
Hocking	Logan	William T. Acker	John Hanson.
Holmes	Millersburg	William C. McDowell ..	R. W. Tannyhill.
Huron	Norwalk	Daniel H. Fox	S. T. A. Vansciver.
Jackson	Jackson	John I. C. Evans	William H. Horton.
Jefferson	Stenbenville	Joseph W. Jordan	Thomas B. Coulter.
Knox	Mt. Vernon	B. A. F. Greer	Willard S. Hyde.
Lake	Painesville	G. N. Tuttle	Franklin Paine, Jr.
Lawrence	Ironton	George W. Thompson ..	William A. Belcher.
Licking	Newark	George M. Grasser	S. Sylvester Wells.
Logan	Bellevfontaine	Rodolphus E. Pettit ..	John A. McIlvaine.
Lorain	Elyria	Laertes B. Smith	William N. Briggs.
Lucas	Toledo	David R. Austin	M. J. Enright.
Madison	London	Oliver P. Crabb	A. A. Hume.
Mahoning	Youngstown	Leroy D. Thoman	Henry B. Shields.
Marion	Marion	Robert Hopkins	A. H. Hord.
Medina	Medina	Charles G. Coddling ..	George Hayden.
Meigs	Pomeroy	P. B. Stanbery	W. A. Race.
Mercer	Celina	David J. Roop	Theoph. G. Touvelle.
Miami	Troy	Arthur L. McKinney ..	John W. Cruikshank.
Monroe	Woodfield	James R. Morris	Joel T. Judkins.
Montgomery	Dayton	John L. H. Frank	John S. Robertson.
Morgan	McConnelleville	Newell Corner	William H. Leeper.
Morrow	Mt. Gilead	Henry L. Beebe	Daniel L. Chase.
Muskingum	Zanesville	Henry L. Korte	Frederick Geiger.
Noble	Caldwell	Asbury P. Jennings ..	H. E. Peters.
Ottawa	Port Clinton	J. H. H. Vithoff	William E. Bense.
Paulding	Paulding	Calvin L. Noble	O. D. Fuller.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Probate Judges.	Clerks of Courts.
Perry	New Lexington ..	James E. Fink	John H. Marlow.
Pickaway	Circleville	Henry N. Hedges, Sr ..	Robert C. Peebles.
Pike	Waverly	A. B. East	John P. Douglass.
Portage	Ravenna	Gideon Seymour	John Mehary.
Preble	Eaton	Andrew L. Harris	Wm. D. Quinn.
Putnam	Ottawa	John H. Gordon	John Thrift.
Richland	Mansfield	Henry D. Keith	Thomas T. Dill.
Ross	Chillicothe	Benj. F. Stone	Edwin W. Pearson.
Sandusky	Fremont	E. F. Dickinson	B. C. Winters.
Scioto	Portsmouth	Robert A. Calvert	Amos B. Cole.
Seneca	Tiffin	Upton F. Cramer	Jeremiah Rex.
Shelby	Sidney	W. C. Wyman	Dennis Mulvihill.
Stark	Canton	A. W. Heldenbrand	John T. Hays.
Summit	Akron	Samuel C. Williamson ..	George W. Weeks.
Trumbull	Warren	Albert Yeoman	M. C. Hart.
Tuscarawas	New Philadelphia ..	George A. Labmer	Jacob DeGreif.
Union	Marysville	John B. Coats	Wm. M. Winget.
Van Wert	Van Wert	Alonzo W. Baker	George W. Day.
Vinton	McArthur	George Lantz	John C. Cooney.
Warren	Lebanon	John W. Keys	Lot Wright.
Washington	Marietta	C. T. Frazier	Christian H. Etz.
Wayne	Wooster	Aquilla Wiley	George Power.
Williams	Bryan	Charles A. Bowersox ..	Evans E. Bechtel.
Wood	Bowling Green	George C. Phelps	Wm. S. Eberly.
Wyandot	Upper Sandusky ..	Joel W. Gibson	Robert D. Dumm.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Sheriffs.	Prosecuting Attorneys.
Adams	West Union	J. K. Pollard	Henry Collings.
Allen	Lima	John Franks	H. S. Prophet.
Ashland	Ashland	Joseph Moore	Byron Stillwell.
Ashtabula	Jefferson	T. S. Young	E. B. Leonard.
Athens	Athens	Parker Carpenter	L. M. Jewett.
Anglaize	Wapakoneta	Fred. Kohler	F. C. Layton.
Belmont	St. Clairsville	Wm. G. Kinney	R. M. Eaton.
Brown	Georgetown	John Carrigan, Sr.	W. W. McKnight.
Butler	Hamilton	Marcellus Thomas	James E. Campbell.
Carroll	Carrollton	David E. Roatch	David M. Brown.
Champaign	Urbana	Samuel C. Bosler	John F. Gowey.
Clarke	Springfield	Elijah G. Coffin	Geo. C. Rawlins.
Clermont	Batavia	Lemuel Teasdale	Frank Davis.
Clinton	Wilmington	Geo. H. Smith	E. J. West.
Columbiana	New Lisbon	Wm. M. Hostetter	John McKicker.
Coshocton	Coshocton	Jacob Severns	Albinus Stillwell.
Crawford	Bucyrus	John A. Schaber	George M. Zeigler.
Cuyahoga	Cleveland	John M. Wilcox	John C. Hutchins.
Darke	Greenville	John W. Hall	Henry Calkins.
Defiance	Defiance	Henry Schmick	Chas. E. Bronson.
Delaware	Delaware	Geo. L. Sackett	John J. Glover.
Erie	Sandusky City	M. L. Starr	Walter W. Bowen.
Fairfield	Lancaster	Geo. W. See	Thomas H. Dolson.
Fayette	Washington C. H.	Oswell Smith	Asa Gregg.
Franklin	Columbus	Josiah Kinnear	J. H. Onthwaite.
Fulton	Wauseon	Joa. H. Brigham	Henry H. Ham.
Gallia	Gallipolis	Chas. Stuart	Chas. W. White.
Gauga	Chardon	Silo P. Warriner	Newton H. Bostwick.
Greene	Xenia	Jas. H. Kyle	Horace Sabin.
Guernsey	Cambridge	Jas. M. McKittrick	Jacob C. Steele.
Hamilton	Cincinnati	Wm. P. Wallace	Chas. W. Baker.
Hancock	Findlay	P. C. Tritch	Henry Brown.
Hardin	Kenton	Geo. W. Darst	S. E. Young.
Harrison	Cadiz	Emanuel Howard	John C. Givin.
Henry	Napoleon	Daniel W. Spangler	David Meekison, Jr.
Highland	Hillsborough	W. C. Newell	J. M. Dumenil.
Hocking	Logan	James N. Acker	Alex. Wilson.
Holmes	Millersburg	A. B. Gonser	Elijah J. Duer.
Huron	Norwalk	Parlee C. Breckenridge ..	Wm. B. Wolverton.
Jackson	Jackson	John M. Ewing	Chas. A. Atkinson.
Jefferson	Steubenville	Alexander Smith	Walter C. Ong.
Knox	Mt. Vernon	John F. Gay	Clark Irvine.
Lake	Painesville	Chas. F. Morley	Lord Sterling.
Lawrence	Ironton	Lorenzo D. Markin	John Hamilton.
Licking	Newark	Samuel H. Schofield	Asbury B. Barrick.
Logan	Bellefontaine	John McCracken	George W. Emerson.
Lorain	Elyria	Charles Stone	George P. Metcalf.
Lucas	Toledo	Samuel S. Linton	Morgan N. Odell.
Madison	London	William Jones	John F. Locke.
Mahoning	Youngstown	James B. Drake	M. Johnson.
Marion	Marion	Silas A. Guthrie	B. G. Young.
Medina	Medina	Chas. E. Parmelee	J. F. Groves.
Meigs	Pomeroy	Henry Warren	Ira Graham.
Mercer	Celina	Henry J. McKernan	Stephen A. Armstrong.
Miami	Troy	Daniel C. Miller	Calvin D. Wright.
Monroe	Woodfield	William Reed	John P. Spriggs.
Montgomery	Dayton	Albert Beebe	John M. Sprigg.
Morgan	McConnelsville	John S. Dunn	William B. Crew.
Morrow	Mt. Gilead	DeWitt C. Sanford	Charles W. Allison.
Muskingum	Zanesville	Orrin Ballou	John R. Stonesipher.
Noble	Caldwell	Freeman C. Thompson	James M. McGinnis.
Ottawa	Port Clinton	John Mitchell	George W. Keightley.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Sheriffs.	Prosecuting Attorneys.
Paulding	Paulding	J. A. Furgerson	John W. Ayres.
Perry	New Lexington ..	James Porter	Joseph G. Huffman.
Pickaway	Circleville	Charles F. Hartmeyer ..	Chas J. Delaplane.
Pike	Waverly	Philip Buchert	Sidney A. Stedman.
Portage	Ravenna	Benjamin F. Keller	Osman S. Ferris.
Preble	Eaton	Wm. H. Snyder	Winfield Freeman.
Putnam	Ottawa	Josiah Markley	Americus V. Watts.
Richland	Mansfield	James Ritchey	John C. Burns.
Ross	Chillicothe	Thomas L. Mackey	Albert Douglass.
Sandusky	Fremont	Charles F. Pohlman	John T. Garver.
Scioto	Portsmouth	Fred. Reiniger	H. W. Farnham.
Seneca	Tiffin	Geo. D. Acker	G. B. Keppel.
Shelby	Sidney	Alexander Ramsay	Benjamin Martin.
Stark	Canton	John P. Rauch	Robert S. Shields.
Summit	Akron	Samuel A. Lane	Edward H. Stuart.
Trumbull	Warren	Sidney F. Bartlett	Thomas I. Gillmer.
Tuscarawas	New Philadelphia ..	Joseph S. Lyons	Jasper S. Mitchell.
Union	Marysville	Justus J. Miller	P. L. Woodburn.
Van Wert	Van Wert	Jesse R. Stith	Ira B. Shissler.
Vinton	McArthur	Cunningham Huston ..	Charles L. White.
Warren	Lebanon	Wm. H. Harlan	D. Allen.
Washington	Marietta	Wm. F. Stedman	Frank F. Oldham.
Wayne	Wooster	William Coulter	Edward S. Dowell.
Williams	Bryan	Geo. C. Kober	Robert A. Scott.
Wood	Bowling Green	Orrin Henry	Frank A. Baldwin.
Wyandot	Upper Sandusky ..	John M. Houston	Moses Kirby.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Auditors.	Treasurers.
Adams	West Union	Robert H. Ellison	Henry Corner.
Allen	Lima	Samuel D. Chambers	David East.
Ashland	Ashland	Elias J. Grosscup	George A. Ullman.
Ashtabula	Jefferson	W. H. Crowell	S. H. Cook.
Athens	Athens	A. W. S. Minear	Augustus J. Frame.
Auglaize	Wapakoneta	J. L. McFarland	Theodore Dickman.
Belmont	St. Clairsville	Wm. N. Coffland	Hamilton Eaton.
Brown	Georgetown	Enoch E. Roney	Enos B. Fee.
Butler	Hamilton	S. B. Berry	H. H. Jones.
Carroll	Carrollton	A. L. Billman	William Tripp.
Champaign	Urbana	John M. Fitzpatrick	James I. Blöse.
Clarke	Springfield	Q. A. Petta	John W. Parsons.
Clermont	Batavia	M. J. W. Holter	Joseph Bicking.
Clinton	Wilmington	Augustus H. Haines	Thos. J. Garland.
Columbiana	New Lisbon	Stacy Pettit	Wm. G. Bentley.
Coshocton	Coshocton	Wm. Wolfe	John Wagner.
Crawford	Bucyrus	Jas. H. Robinson	Christian H. Shonert.
Cuyahoga	Cleveland	Levi F. Bander	Moses G. Watterson.
Darke	Greenville	John C. Turpen	William Kerlin.
Defiance	Defiance	Wm. A. Slough	Adam Minsel.
Delaware	Delaware	Stephen C. Conrey	John H. Warren.
Erie	Sandusky City	Ebenezer Merry	Reuben Turner.
Fairfield	Lancaster	Ephraim Ackers	Henry A. Martina.
Fayette	Washington C. H.	Thomas J. Lindsey	Eli Craig.
Franklin	Columbus	Emil Kiesewetter	Philip W. Corzilius.
Fulton	Wauseon	Isaac Springer	Hiram L. Moseley.
Gallia	Gallipolis	Joseph Stafford	Wm. W. Martindale.
Geauga	Chardon	Wm. Howard	Simeon L. Chapman.
Greene	Xenia	Andrew S. Frazer	Lester Arnold.
Guernsey	Cambridge	Wm. E. Boden	John W. Robins.
Hamilton	Cincinnati	Wm. S. Cappeller	John G. Fratz.
Hancock	Findlay	Joseph R. Kagy	Peter Hosler.
Hardin	Kenton	Jasper N. Welch	David P. Stevenson.
Harrison	Cadiz	Thomas W. Giles	W. B. Pumphrey.
Henry	Napoleon	Homer L. Ennes	John C. McLain.
Highland	Hillsborough	E. M. DeBruin	W. S. Patterson.
Hocking	Logan	Wm. N. England	John A. Shaw.
Holmes	Millersburg	Hosack Reed	John Sharp, Jr.
Huron	Norwalk	Henry W. Owen	Oliver W. Williams.
Jackson	Jackson	Thomas W. Patterson	James R. Hunter.
Jefferson	Steubenville	John Moore	John C. Brown.
Knox	Mt. Vernon	Alexander Cassil	Thomas Obbert.
Lake	Painesville	Benj. D. Chesney	Harvey Woodworth.
Lawrence	Ironton	Mark S. Bartram	John Snyder.
Licking	Newark	Corrington S. Brady	W. Newell Fulton.
Logan	Bellefontaine	John H. Stewart	Nelson H. Jackson.
Lorain	Elyria	Orville Root	Wm. A. Brame.
Lucas	Toledo	John Paul Jones	Elijah B. Hall.
Madison	London	Melville M. Thomas	Elias R. Florence.
Mahoning	Youngstown	James B. Hughes	Alexander Dickson.
Marion	Marion	James L. Bell	Peter Beerbower.
Medina	Medina	S. L. Dyer	F. B. Clark.
Melgs	Pomeroy	Geo. P. Sanford	B. M. Skinner.
Mercer	Celina	Joseph V. Sidenbender	Herman H. Pulskamp.
Miami	Troy	Chas. C. Barnett	John A. McCurdy.
Monroe	Woodfield	William Weddell	John Gatchell.
Montgomery	Dayton	Frederick Schutte	Henry H. Lambach.
Morgan	McConnelsville	Francis M. Kahler	Wm. C. Smiley.
Morrow	Mt. Gilead	Simon Rosenthal	John G. Russell.
Muskingum	Zanesville	Jas. T. Irvine	George W. Allen.
Noble	Caldwell	Daniel Nenhart, Jr.	George Wycarver.
Ottawa	Port Clinton	John W. Mizener	John H. Magee.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Auditors.	Treasurers.
Paulding	Paulding	Charles Hakes	Samuel G. Robertson.
Perry	New Lexington ..	Orrin Thacker	Noah Karr.
Pickaway	Circleville	Frank M. Shulze	John L. Seal.
Pike	Waverly	Van H. Bond	John Rader.
Portage	Ravenna	William Grinnell	Nathan H. Smith.
Preble	Eaton	Samuel Oldfather	Samuel S. Dix.
Putnam	Ottawa	Lewis Lehmkuhle	Nelson H. McCormick.
Richland	Mansfield	Marion D. Ward	Merchant Carter.
Ross	Chillicothe	Frank J. Esker	Stanislaus Burkley.
Sandusky	Fremont	Adam Hodes	Elias Moore.
Scioto	Portsmouth	W. H. H. Cadot	B. R. Miles.
Seneca	Tiffin	Victor J. Zahm	John W. Barrack.
Shelby	Sidney	Orlando O. Mathers	Joseph S. Laughlin.
Stark	Canton	Jas. P. Sourbeck	Timothy Sullivan.
Summit	Akron	Edward Buckingham ..	David R. Paige, Jr.
Trumbull	Warren	Ralza C. Rice	Timothy W. Case.
Tuscarawas	New Philadelphia ..	Abraham R. Holmes	John A. Wagner.
Union	Marysville	W. L. Curry	George W. Court.
Van Wert	Van Wert	Wm. T. Exline	James Montgomery.
Vinton	McArthur	John T. Foreman	Joseph P. Whitlatch.
Warren	Lebanon	Chas. W. Randall	James S. Totten.
Washington	Marietta	Benj. J. McKinney	Wm. R. Goddard.
Wayne	Wooster	John Bruce Wilson	Lewis P. Ohliger.
Williams	Bryan	George Rings	Elisha M. Ogle.
Wood	Bowling Green	Samuel Case	Isaac W. Clayton.
Wyandot	Upper Sandusky ..	Landline Smith	George W. Biles.

* Deceased. Michael Hoefler appointed to fill vacancy.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Recorders.	Surveyors.
Adams	West Union	James A. Stevenson	Allen V. Hutson.
Allen	Lima	Henry H. Heman	David D. Nicholas.
Ashland	Ashland	John P. M. Goodman	John B. Weddell.
Ashtabula	Jefferson	E. F. Mason	J. A. Fickinger.
Athens	Athens	Josiah B. Allen	John Ackley.
Anglaize	Wapakoneta	Henry Ruck	Samuel Craig.
Belmont	St. Clairsville	James A. Barnes	Noble Carter.
Brown	Georgetown	Grandison Pinchard	Jacob H. Bower.
Butler	Hamilton	Alexander Getz	John C. Weaver.
Carroll	Carrollton	Wm. M. Hagerman	Eli D. Shaw.
Champaign	Urbana	George Kizer	C. W. L. Taylor.
Clarke	Springfield	Ashley Bradford	Chandler Robbins.
Clermont	Batavia	M. A. Wood	C. S. Miller.
Clinton	Wilmington	Wm. O. Holloway	David Wickersham.
Columbiana	New Lisbon	George F. Ball	John B. Strown.
Coshocton	Coshocton	John M. Crawford	Levi Gamble.
Crawford	Bucyrus	Wm. Strimmel	Frank L. Plants.
Cuyahoga	Cleveland	Asa M. Van Sickle	Clarence H. Burgess.
Darke	Greenville	P. H. Maher	Eli Armacost.
Defiance	Defiance	William E. Carpenter	Daniel H. English.
Delaware	Delaware	Elijah B. Adams	L. B. Denison.
Erie	Sandusky City	Wm. A. Fill	George Morton.
Fairfield	Lancaster	Timothy Fishbaugh	Chas. W. Borland.
Fayette	Washington C. H.	Z. W. Heagler	James A. McLean.
Franklin	Columbus	Nathan Cole	Benj. F. Bowen.
Fulton	Wauseon	Richard Taylor	Anthony B. Robinson.
Gallia	Gallipolis	Ira W. Booton	James W. Gardner.
Geauga	Chardon	Wm. H. Young	E. S. F. Phelps.
Greene	Xenia	Henry Torrence	Levi Riddell.
Guernsey	Cambridge	Hugh B. Huffman	Robert McKahan.
Hamilton	Cincinnati	Frank Bruner	George W. Haire.
Hancock	Findlay	Joseph F. Gutzwiller	Edwin Phifer.
Hardin	Kenton	George W. Armstrong	William H. Brown.
Harrison	Cadiz	John S. Graybill	Jacob Jarvis.
Henry	Napoleon	Daniel Hartnett	George E. Welsted.
Highland	Hillsborough	George Stevens	John W. Boyd.
Hocking	Logan	Benj. White	James R. Davis.
Holmes	Millersburg	John D. Shrimplin	James C. Calhoun.
Huron	Norwalk	Elon G. Boughton	Charles M. Wilcox.
Jackson	Jackson	Enoch H. Lewis	John D. Brown.
Jefferson	Steubenville	Jacob Hull	Henry Lewis.
Knox	Mt. Vernon	Samuel Kunkel	J. Nelson Headington.
Lake	Painesville	Silas A. Tisdal	Horatio N. Munson.
Lawrence	Ironton	Wm. F. McKnight	John R. C. Brown.
Licking	Newark	James F. Lingafelter	George P. Webb.
Logan	Bellefontaine	John O. Sweet	M. H. McCormick.
Lorain	Elyria	John Blanchard	Lafayette F. Ward.
Lucas	Toledo	Isaac Head	Chas. Shoemaker.
Madison	London	Leonard Eastman	Jonathan Arnett.
Mahoning	Yongstown	Thomas H. Ward	James M. Reno.
Marion	Marion	Dallas Day	Isaac Young.
Medina	Medina	F. R. Mantz	A. D. Sheldon.
Meigs	Pomeroy	John McClure	R. H. Ashworth.
Mercer	Celina	Edward Landfair	Marcus Schnyley.
Miami	Troy	George Green	Henry O. Evans.
Monroe	Woodfield	James Myers	John E. Miracle.
Montgomery	Dayton	James H. Hall	Frank Snyder.
Morgan	McConnelsville	James M. West	M. K. Atkinson.
Morrow	Mt. Gilead	John B. Gatchell	John F. Buck.
Muskingum	Zanesville	David Zimmer	William Dunn.
Noble	Caldwell	Enoch W. Wickham	David Miller.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Recorders.	Surveyors.
Ottawa	Port Clinton	G. W. Bader	Ernst Franck.
Paulding	Paulding	Josiah Richards	John C. Harris.
Perry	New Lexington	George W. Moore	Samuel McCourtney.
Pickaway	Circleville	Josiah B. Valentine	William C. Rowe.
Pike	Waverly	Oliver P. Beekman	Henry Overman.
Portage	Ravenna	Philo Pierce	Jedediah Cole.
Preble	Eaton	Hiram L. Robbins	James V. Acton.
Putnam	Ottawa	William Alt	Aaron Oberbeck.
Richland	Mansfield	Jeremiah Bollman	John Newman.
Ross	Chillicothe	Edward Cryder	Lorenzo Wesson.
Sandusky	Fremont	Jas. Worst	Michael Putnam.
Scioto	Portsmouth	William H. Williams	John B. Gregory.
Seneca	Tiffin	Thomas J. Kintz	Samuel Nighswander
Shelby	Sidney	A. J. Rebstock	Chas. H. Flinn.
Stark	Canton	Patrick L. Manley	John H. Hall.
Summit	Akron	George H. Payne	Robert S. Paul.
Trumbull	Warren	Wells A. Bushnell	Charles W. Tyler.
Tuscarawas	New Philadelphia	Peter W. Hines	Oliver H. Hoover.
Union	Marysville	George P. Robinson	Fred J. Sager.
Van Wert	Van Wert	Perry C. Conn	William B. Jones.
Vinton	McArthur	John Finnegan	Samuel C. Steinbrook.
Warren	Lebanon	H. H. Dunham	Augustus Hinsch.
Washington	Marietta	James Nixon	Joseph W. Hulbert.
Wayne	Wooster	Jacob Stark	Ezra D. Shreve.
Williams	Bryan	Barrett E. Conkling	James Paul.
Wood	Bowling Green	Robert Dunn	Daniel D. Ames.
Wyandot	Upper Sandusky	Simeon Inman	Jacob Greek.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Coroners.
Adams	West Union	William Rybolt.
Allen	Lima	Martin V. Blair.
Ashland	Ashland	George Smith.
Ashtabula	Jefferson	A. W. Stiles.
Athens	Athens	James C. Bower.
Auglaize	Wapakoneta	Otto W. Jacobs.
Belmont	St. Clairsville	Thomas Garrett.
Brown	Georgetown	William S. Norrie.
Butler	Hamilton	William Spencer.
Carroll	Carrollton	James Gilbert.
Champaign	Urbana	Thomas Hitt.
Clarke	Springfield	J. L. Coleman.
Clermont	Batavia	E. V. Downs.
Clinton	Wilmington	John G. Outcalt.
Columbiana	New Lisbon	David Grover.
Coshocton	Coshocton	John Richeson.
Crawford	Bucyrus	Peter Bauer.
Cuyahoga	Cleveland	J. F. Isom.
Darke	Greenville	Thomas E. Teal.
Defiance	Defiance	Henry Kuhl.
Delaware	Delaware	Elam C. Vining.
Erie	Sandusky City	Dr. M. A. Hughes.
Fairfield	Lancaster	Thomas R. Torpey.
Fayette	Washington C. H.	Edgar C. Hamilton.
Franklin	Columbus	Patrick A. Egan.
Fulton	Wauseon	Seth T. Worden.
Gallia	Gallipolis	W. T. Northrup.
Geauga	Chardon	P. M. Cowles.
Greene	Xenia	Daniel D. Moore.
Guernsey	Cambridge	David L. Forsythe.
Hamilton	Cincinnati	Ferdinand Steck.
Hancock	Findlay	Tobias G. Barnhill.
Hardin	Kenton	Godfrey Sutermeister.
Harrison	Cadiz	John S. McBean.
Henry	Napoleon	Michael Neff.
Highland	Hillsborough	Morgan M. Barrere.
Hocking	Logan	Daniel Heft.
Holmes	Millersburg	Joshua Stuber.
Huron	Norwalk	Robert H. Reynolds.
Jackson	Jackson	Nathaniel T. Hoover.
Jefferson	Steubenville	Samuel Stephens.
Knox	Mt. Vernon	George Shira.
Lake	Painesville	Franklin Parker.
Lawrence	Ironton	James M. Mathews.
Licking	Newark	Cyrus A. Stephens.
Logan	Bellefontaine	Phillander Jones.
Lorain	Elyria	Hiram Patterson.
Lucas	Toledo	H. D. Chamberlin.
Madison	London	Americus V. Chrisman.
Mahoning	Youngstown	Cornelius Harroff.
Marion	Marion	Calvin P. Gailey.
Medina	Medina	Hiram Goodwin.
Meigs	Pomeroy	James B. Scott.
Mercer	Celina	Stephen R. Wilson.
Miami	Troy	Edward N. Kitzmiller.
Monroe	Woodsfield	John Muhleman.
Montgomery	Dayton	John P. Kline.
Morgan	McConnellsville	Andrew Kahler.
Morrow	Mt. Gilead	Stephen Brown.
Muskingum	Zanesville	Daniel Smith.
Noble	Caldwell	Anthony I. Dove.
Ottawa	Port Clinton	David B. Reading.
Paulding	Paulding	C. H. Cunningham.

COUNTY OFFICERS—Continued.

Counties.	County Seats.	Coroners.
Perry	New Lexington	James Price.
Pickaway	Circleville	Jason Case.
Pike	Waverly	Adolph Hepe.
Portage	Ravenna	Aaron M. Sherman.
Preble	Eaton	Warren M. Campbell.
Putnam	Ottawa	Joseph Fournier.
Richland	Mansfield	A. J. Erwin.
Ross	Chillicothe	John R. Tucker.
Sandusky	Fremont	Hemen B. Smith.
Scioto	Portsmouth	Henry Ribble.
Seneca	Tiffin	William Smith.
Shelby	Sidney	Lewis Applegate.
Stark	Canton	Reuben H. Anderson.
Summit	Akron	Almon Brown.
Trumbull	Warren	Zachariah T. Ewart.
Tuscarawas	New Philadelphia	George W. Bowers.
Union	Marysville	Harrison McFadden.
Van Wert	Van Wert	Samuel Engleright.
Vinton	McArthur	William W. Fierce.
Warren	Lebanon	Berkley T. Brown.
Washington	Marietta	Conrad Krigbaum.
Wayne	Wooster	Jacob Arnold.
Williams	Bryan	Daniel Caulkins.
Wood	Bowling Green	George Mills.
Wyandot	Upper Sandusky	Jacob Tribolet.

INCORPORATIONS
AND
CHANGES IN INCORPORATED COMPANIES,
FOR THE YEAR ENDING NOVEMBER 15, 1878.

CLASSIFIED STATEMENT OF INCORPORATIONS, FOR THE YEAR ENDING NOV. 15, 1878.

Number.	Kind of corporation chartered.	Increase of capital stock.	Reduction of capital stock.	Capital stock authorized.
63	Manufacturing companies incorporated			\$5,991,400
2	“ “ increased capital	\$162,500		
2	“ “ decreased capital		\$250,000	
3	“ “ change of time of annual meeting			
33	Railroad companies incorporated			14,173,000
3	“ “ increased capital stock	1,680,000		
11	“ “ extension of lines			
2	“ “ change of name			
1	“ “ change of time of annual meeting			
4	Railroad companies consolidated under new name			
28	Building and loan associations incorporated			13,252,666
1	“ “ increase of capital stock	40,000		
1	Building and loan associations, change of name			
9	Mining companies incorporated			1,705,000
5	Mining and manufacturing companies incorporated			7,850,000
1	Mining and manufacturing companies, change of name			
4	Street railroad companies incorporated			130,000
1	“ “ consolidated under new name			
2	Banks, savings and loan associations incorporated			140,000
10	Printing and publishing companies incorporated			249,500
50	Coöperative fire and life insurance companies, mutual aid associations, etc., incorporated ..			
1	Coöperative fire and life insurance companies, surrendered charter or dissolved			
8	Gas companies incorporated			266,000
8	Coöperative trade associations incorporated ..			14,350
1	“ “ change of location of office			
15	Churches, societies, and benevolent associations incorporated			
5	Common carrier companies incorporated			195,000
1	“ “ increased capital stock	17,700		
1	Common carrier companies decreased capital stock		99,700	
1	Companies incorporated for building steamboats, sail-vessels, barges, canal boats, etc.			60,000
4	Fire insurance companies incorporated			250,000
4	Turnpike companies incorporated			47,000
1	“ “ sale of corporate franchise			
1	Plank-road companies incorporated			21,000
1	“ “ change of name			
3	Base-ball companies incorporated			16,500
3	Companies incorporated for building tenement-houses, halls, etc			30,000
3	Driving park and fair associations incorporated ..			40,000

CLASSIFIED STATEMENT OF INCORPORATIONS—Continued.

Number.	Kind of corporation chartered.	Increase of capital stock.	Reduction of capital stock.	Capital stock authorized.
1	Consolidated tank-line company incorporated .....	.....	.....	\$200,000
1	Board of trade companies incorporated .....	.....	.....	.....
1	Lumber companies incorporated .....	.....	.....	150,000
2	Telegraph companies incorporated .....	.....	.....	80,000
2	Detective associations incorporated .....	.....	.....	100
7	Hedge companies incorporated .....	.....	.....	217,000
2	Medical societies incorporated .....	.....	.....	1,000
3	Companies incorporated for hunting, fishing, and other sports .....	.....	.....	5,750
1	Wool growers' exchange, companies incorpo rated .....	.....	.....	50,000
4	Water-works companies incorporated .....	.....	.....	425,000
1	Mercantile companies incorporated .....	.....	.....	20,000
1	Musical societies incorporated .....	.....	.....	15,000
1	Wrecking companies incorporated .....	.....	.....	10,000
2	Ice companies incorporated .....	.....	.....	60,000
1	Promotion of scienc and fine arts .....	.....	.....	.....
289	.....	\$1,900,200	\$349,700	\$45,674,266

**NAMES OF COMPANIES ORGANIZED FOR MANUFACTURING PURPOSES, WITH DATE OF
FROM NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of Company.	Location.
	1877.		
1	Nov. 19	Askins Glass Coffin Co.....	Orville.....
2	22	Western Paint and Roofing Co.....	Cincinnati.....
3	23	The Walden Ridge Coal and Iron Co.....	".....
4	30	Hamilton Boot and Shoe Manufacturing Co.....	Hamilton.....
5	30	The Ice Company of Cincinnati.....	Cincinnati.....
6	Dec. 7	American Sickle Grinder Co.....	North Amherst.....
7	19	The Bonte Manufacturing Co.....	Cincinnati.....
	1878.		
8	Jan. 3	S. Hand Manufacturing Co.....	".....
9	4	The Long & Allstatter Co.....	Hamilton.....
10	12	Canton Bridge Co.....	Canton.....
11	14	The J. V. Woolsey & Son Manufacturing Co.....	Sandusky.....
12	15	The American Hydro-Carbon Gas Co.....	Columbiana.....
13	17	United States Iron Co.....	Youngstown.....
14	17	Oviatt Manufacturing Co.....	Hudson.....
15	18	The Enterprise Glass Co.....	Ravenna.....
16	Feb. 4	Julius J. Wood Starch Co.....	Columbus.....
17	5	Sellew Manufacturing Co.....	Cincinnati.....
18	11	The Champion Iron Fence Co.....	Kenton.....
19	12	Nevada Bending Co.....	Nevada.....
20	20	Scioto Machine Works.....	Circleville.....
21	26	Mills & Spellmure Manufacturing Co.....	Cincinnati.....
22	27	Grove Coal Co.....	Cleveland.....
23	Mar. 5	The Osborn, Chase & Swayne Co.....	Toledo.....
24	5	The Calumet Fire-Clay Co.....	Elliottsville.....
25	6	Olmsted Splint Broom Co.....	Olmsted Falls.....
26	7	The Elyria Shear Co.....	Elyria.....
27	15	Ontario Coal and Mining Co.....	Cleveland.....
28	23	Ohio Machine Co.....	Columbus.....
29	28	The Pulvermacher Galvanic Co.....	Cincinnati.....
30	April 3	W. N. Hedges, Funk & Co.....	Springfield.....
31	10	Pettibone Manufacturing Co.....	Cincinnati.....
32	12	The American Railroad Ballast Unloader Co.....	Toledo.....
33	18	The Champion Iron Bridge and Manufacturing Co.....	Wilmington.....
34	May 1	American Life-Boat and Lancher Co.....	Cleveland.....
35	10	The Ludlow Lock Co.....	".....
36	16	Leader Gasoline Stove Co.....	".....
37	22	Paundling Mills Flouring Co.....	Paundling.....
38	June 1	The Columbus Patent Collar Co.....	Columbus.....
39	4	The Mt. Vernon Lantern Works.....	Mt. Vernon.....
40	5	Trenbath Medicine Co.....	Cleveland.....
41	5	Bonaparte Consolidated Gold and Silver Min'g Co.....	Cincinnati.....
42	7	White Cross Consolidated Mining Co.....	Cleveland.....
43	7	Straight Line Bridge Co.....	Hamilton.....
44	13	Wester Lock Co.....	Geneva.....
45	20	Columbus Watch Co.....	Columbus.....
46	July 2	American Cast Steel Co.....	Cleveland.....
47	9	The Maumee Valley Cheese Co.....	Antwerp.....
48	11	The Marblehead Lime Co.....	Ottawa and Erie Co's.....
49	16	The Springfield Malleable Iron Co.....	Springfield.....
50	Aug. 6	The Hillsboro Shears Manufacturing Co.....	Hillsboro.....
51	7	Neff Diamond Black Co.....	Gambier.....
52	9	The Bellows Type Writer Co.....	Cleveland.....
53	10	Worthington & Sons.....	North Amherst.....
54	15	Anchor Transport Co.....	Middleport.....
55	19	King's Great Western Powder Co.....	Xenia and Cincinnati.....
56	21	Merchant Tailors' Association.....	Dayton.....

FILING CERTIFICATES, LOCATION, PURPOSE, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.

Purpose of Organization.	Amount of capital stock.	Number.
Manufacturing glass burial cases	\$209,000	1
" and sale of non-corrosive iron paint, roofing and mineral paint	100,000	2
" iron and mining iron, coal, and other minerals	* 150,000	3
" and sale of boots and shoes	25,000	4
" and sale of ice	50,000	5
" and sale of machines for grinding sickles	25,000	6
" and sale of frames and moldings	50,000	7
" and general foundry business	50,000	8
" and sale of agricultural implements, machinery, etc	200,000	9
" bridges	150,000	10
" wagon and carriage wood-work	40,000	11
" gas works, puddling furnaces, etc	1,000,000	12
" and sale of iron and steel	50,000	13
" agricultural implements and machinery	50,000	14
" flint and crystal glass of all kinds	25,000	15
" starch	100,000	16
" and sale of tin and sheet-iron goods	100,000	17
" iron fencing	100,000	18
" and sale of cylindrical vessels and bent ware	10,000	19
" machinery of all kinds	30,000	20
" and dealing in lumber	100,000	21
" iron and mining iron, coal and other minerals	* 100,000	22
" wooden and gilt frames, cornice, etc	210,000	23
" sewer-pipes, fire brick, vases, etc	60,000	24
" splint brooms	50,000	25
" shears and light hardware	10,000	26
" iron and mining iron, coal and other minerals	* 100,000	27
" machinery of all kinds, of iron and steel	30,000	28
" galvanic belts, etc	100,000	29
" baking powder, pills, and flavoring extracts	100,000	30
" and sale of military and society regalia	10,000	31
" and sale of railroad ballast unloaders	60,000	32
" iron bridges, fences and machinery	50,000	33
" life-boats and launching apparatus	50,000	34
" and sale of locks, knobs, latches, etc	200,000	35
" and sale of vapor stoves	5,000	36
" flour and general milling business	10,000	37
" and sale of patent horse-collars	50,000	38
" and sale of coal oil lamps and lanterns	10,000	39
" and sale of Treubath's patent medicines	20,000	40
" and mining gold and silver, in Idaho Territory	* 2,500,000	41
" gold and silver, and mining coal and other minerals in Nevada	* 5,000,000	42
" bridge over Miami River	5,000	43
" metal locks and fastenings	200,000	44
" and sale of watches	5,000	45
" cast steel under "Berchold's patent"	100,000	46
" cheese and butter	3,000	47
" lime and quarrying stone	50,000	48
" gray iron, tools, implements, etc	50,000	49
" and sale of patent shears and button-hole cutter	6,400	50
" printing ink, paints, and blackings	25,000	51
" and sale of type writers	20,000	52
" grindstones and quarrying stone	250,000	53
" and repairing steamboats and barges	5,000	54
" gun-powder	250,000	55
" clothing and wearing apparel	10,000	56

COMPANIES ORGANIZED FOR MANUFACTURING PURPOSES—Continued.

Number.	Date of filing certificate.	Name of Company.	Location.
	1878.		
57	Sept. 2	Cleveland Linseed Oil Works	Cleveland
58	3	The Delphos Paper Co.	Delphos
59	7	The Ashtabula Wooden Ware Co	Ashtabula
60	7	Corn's Iron Co	Girard
61	Oct. 2	American Lubricating Oil Co.	Cleveland
62	10	Mosler Safe and Lock Co	Cincinnati
63	12	The Western Glycerine Manufacturing Co.	"
64	19	Proctorville McGinnis Harrow Co	Proctorville
65	22	Oppman Brewing and Malt Co.	Cleveland
66	29	Russell & Co	Massillon
67	31	Cleveland Gas Economizing Co	Cleveland
68	Nov. 1	Heberling Running Stitch Sewing Machine Co ..	Mt. Pleasant
69	7	The Arctic Ice Machine Manufacturing Co.	Cincinnati
70	11	The Winslow Safety Car Stove Co	Cleveland
71	11	White Star Zinc Co	"

NAMES OF RAILROAD COMPANIES INCORPORATED FOR THE PURPOSE OF EXTENSION OF LINE, ARE TO PASS, AND AMOUNT OF CAPITAL STOCK,

Number.	Date of filing certificate.	Name of Company.
	1877.	
1	Nov. 21	Shawnee, Hocking Valley, and Southern Railroad
2	23	Columbus and Coal Valley Extension of the Columbus and North-Western Railway Co.
3	27	Waynesville, Port William and Jeffersonville Railroad Co.
4	Dec. 13	Columbus and North-Western Railway Co.
	1878.	
5	Jan. 30	Marietta and Shawnee Railway Co.
6	May 8	Celina, Van Wert, and State Line Extension of the Columbus and North-Western Railway Co
7	31	Cincinnati and Fayetteville Railroad Co
8	Aug. 7	Cincinnati and Eastern Railway Co
9	23	Ohio and West Virginia Railway Co
10	Nov. 7	Cleveland, Tuscarawas Valley, and Wheeling Railway Co
11	13	Canton Branch of the Youngstown and Connotton Valley Railroad

COMPANIES ORGANIZED FOR MANUFACTURING PURPOSES—Continued.

Purpose of Organization.	Amount of capital stock.	Number.
Manufacturing linseed oil and products from flax seed	\$200,000	57
" straw and manilla paper	25,000	58
" butter-tubs, chairs, and articles made of wood	6,000	59
" steel and iron implements	30,000	60
" and sale of oils and petroleum products	100,000	61
" and sale of fire and burglar proof safes, vaults, etc	100,000	62
" glycerine	50,000	63
" agricultural implements	5,000	64
" lager beer and malt liquors	100,000	65
" agricultural implements and machinery	500,000	66
" and sale of machines for economizing in the consumption of gas	25,000	67
" of sewing machines	12,000	68
" refrigerating machines and artificial ice	50,000	69
" car stoves	175,000	70
" zinc, paints, oils, etc	100,000	71
	\$13,841,400	

WITH DATE OF FILING CERTIFICATE, TERMINI, COUNTIES THROUGH WHICH THE ROADS FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Termini.	Counties through which the Rail-roads pass.	Amount of capital stock.	Number.
Shawnee and McConnellsville	Perry, Morgan	\$200,000	1
Columbus and McConnellsville	Franklin, Fairfield, Perry, Hocking, Morgan	200,000	2
Jeffersonville and Washington	Fayette county		3
Columbus and McConnellsville	Franklin, Fairfield, Hocking, Perry, Morgan		4
Big Run Station and Gallipolis	Athens, Meigs, Gallia (Branch N. G.)....	"	5
Celina and State line, in Williams county	Mercer, Van Wert, Paulding, Defiance, Williams	100,000	6
Fayetteville and Nelsonville ..	Brown, Highland, Clinton, Pike, Jackson, Ross, Vinton, Hocking, Athens ..		7
New Richmond and Aberdeen	Clermont, Brown		8
Hawk's Bridge and Pomeroy.	Vinton, Gallia, Meigs, (Branch Road) ..	"	9
Massillon and 1 3-5 mile S. W.	Stark (Sippo Branch)	"	10
Minerva and Canton	Stark (Branch)	"	11
		\$500,000	

* Amended certificate.

**NAMES OF RAILROAD COMPANIES INCORPORATED, WITH DATE OF FILING CERTIFICATES,
STOCK, FROM NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of Company.
	1877.	
1	Nov. 21	River Valley and Lake Erie Narrow Gauge Railway Co.....
2	Dec. 1	The Ohio River Railway Co
3	5	Shawnee and New Lexington Narrow Gauge Railroad
4	6	The Dayton, Covington, and Toledo Railroad Co.....
5	6	The Island Creek and Richmond Mineral Railroad
6	14	Tiffin and North-western Railroad Co
7	17	The Zanesville and Pomeroy Railroad Co.
8	26	The East and West Railway Co
	1878.	
9	Jan. 3	Ripley, Wilmington and Dayton Railroad Co
10	16	The Kalida Narrow Gauge Railroad Co
11	17	Pittsburgh and Chicago Narrow Gauge Railroad Co.....
12	30	Cincinnati and Blanchester North Eastern.....
13	30	The Cleveland Southern Railway Co
14	31	The Delphos, Bluffton, and Frankfort Railway Co
15	Feb. 21	The Quaker City, Fairview, and Freeport Narrow Gauge Railroad Co....
16	Mar. 18	The Springfield, St. Paris, and Sidney Railroad Co.....
17	21	The Springfield, Troy, and Piqua Railroad.....
18	April 12	The Columbus and Bellefontaine Railway Co.....
19	May 9	Cleveland and Youngstown Railroad Co.....
20	21	Cincinnati and Hamilton Narrow Gauge Railway.....
21	24	Bellefontaine and North-Western Railway Co
22	28	The Springfield, Troy, and North-Western Railroad.....
23	31	Alliance and Lake Erie Railroad Co
24	June 22	The Cincinnati Suburban Steam Railway Co
25	July 18	Lick Mineral Railroad.....
26	30	Paint Valley Railroad Co
27	May 22	Ohio and West Virginia Railway Co
28	Sept. 3	Waynesville, Harveysburg, and Wilmington Railway Co.....
29	Oct. 22	Jackson Iron and Coal Railroad Co
30	31	Cincinnati and Walnut Hills Railway Co.....

TERMINI, COUNTIES THROUGH WHICH THE ROADS ARE TO PASS, AND AMOUNT OF CAPITAL TO NOVEMBER 15, 1878.

Termini of Road.	Counties through which the Rail-roads pass.	Amount of capital stock.	Number.
Farmington and Windsor....	Trumbull, Ashtabula	\$80,000	1
Portsmouth and Gallipolis...	Scioto, Lawrence, Gallia	1,500,000	2
Shawnee and New Lexington.	Wholly in Perry county	50,000	3
Dayton and Toledo	Montgomery, Miami, Darke, Mercer, Anglaize, Allen, Putnam, Henry, Wood, Lucas	100,000	4
Richmond and Steubenville..	Wholly in Jefferson county	60,000	5
Tiffin and State line in Williams county	Seneca, Hancock, Wood, Henry, Fulton, Williams	1,500,000	6
Zanesville and Pomeroy	Muskingum, Perry, Morgan, Athens, Meigs	300,000	7
East and west State lines....	Trumbull, Geauga, Portage, Summit, Medina, Huron, Seneca, Hancock, Putnam, Paulding	3,000,000	8
Ripley and Dayton	Brown, Highland, Clinton, Greene, Montgomery	200,000	9
Miller's Crossing and Kalida..	Wholly in Putnam county	25,000	10
Youngstown and west State line	Mahoning, Portage, Stark, Holmes, Wayne, Ashland, Richland, Huron, Seneca, Hancock, Putnam, Paulding..	3,000,000	11
Cincinnati and Columbus....	Hamilton, Clermont, Warren, Clinton, Fayette, Madison, Franklin	500,000	12
Cleveland and Pomeroy	Cuyahoga, Lorain, Medina, Wayne, Holmes, Coshocton, Muskingum, Perry, Hocking, Athens, Meigs	500,000	13
Delphos and west State line..	Allen, Mercer, Van Wert	25,000	14
Quaker City and Freeport...	Guernsey, Harrison	150,000	15
Springfield and Sidney	Clarke, Champaign, Shelby	200,000	16
Springfield and Piqua	Clarke, Miami	200,000	17
Columbus and Bellefontaine ..	Franklin, Union, Logan	200,000	18
Youngstown and Ravenna	Mahoning, Trumbull, Portage	300,000	19
Cincinnati and Hamilton	Butler, Hamilton	500,000	20
Bellefontaine and Van Wert ..	Logan, Shelby, Anglaize, Allen, Van Wert	200,000	21
Springfield and Troy	Clarke, Miami	150,000	22
Alliance and Fairport Harbor	Stark, Mahoning, Portage, Lake, Trumbull, Geauga	450,000	23
Cincinnati and Madisonville.	Wholly in Hamilton county	300,000	24
Jackson	Wholly in Jackson county	5,000	25
Chillicothe and Hillsboro	Ross, Highland	200,000	26
Columbus and Gallipolis....	Franklin, Pickaway, Fairfield, Hocking, Vinton, Gallia	250,000	27
Waynesville and Wilmington	Warren, Clinton	75,000	28
Jackson county	Wholly in Jackson county	3,000	29
Cincinnati and Mason	Hamilton, Warren	150,000	30
		\$14,173,000	

**NAMES OF STREET RAILROAD COMPANIES INCORPORATED, WITH DATE OF
NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of Company.
1	1877. Nov. 27	Tiffin Street Railroad Company
2	1878. Feb. 9	The Lima Street Railroad Company.....
3	26	The Central Passenger Railroad Company.....
4	April 10	Norwalk Street Railway Company.....

**NAMES OF TURNPIKE COMPANIES INCORPORATED, WITH DATE OF FILING
FROM NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of Company.	County where located.
1	1878. Jan. 7	The Idaho, Jasper and Piketon Turnpike Co	Pike
2	May 8	The Blue Rock Turnpike Co	Hamilton
3	June 4	The State or Cleves Road Turnpike Co	"
4	Sept. 13	The Braffetsville and New Paris Turnpike Co....	Darke and Preble

**NAMES OF PLANK-ROAD COMPANIES INCORPORATED, WITH DATE OF FILING
FROM NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of Company.	County where located.
1	1878. April 30	Independence and Parma Plank Road Co	Cuyahoga

**NAMES OF BANKS, SAVINGS AND LOAN ASSOCIATIONS INCORPORATED, WITH DATE
NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of Bank or Loan Association.
1	1878. Sept. 6	Fairfield County Bank
2	Nov. 14	Citizens' Bank of Greenfield.....

FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM
TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Number.
Tiffin	\$20,000 00	1
Lima	14,000 00	2
Toledo	100,000 00	3
Norwalk	5,000 00	4
	\$139,000 00	

CERTIFICATE, COUNTY WHERE LOCATED, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.

Termini.	Amount of capital stock.	Number.
Idaho and Piketon	\$6,000	1
Six Mile House and New Baltimore	35,000	2
Greene and Miami townships		3
Bracketsville and New Paris	6,000	4
	\$47,000	

CERTIFICATE, COUNTY WHERE LOCATED, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.

Termini.	Amount of capital stock.	Number.
A point in Brooklyn township and Walling's Corners	\$21,000	1

OF FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM
TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Number.
Lancaster	\$90,000	1
Greenfield	50,000	2
	\$140,000	

**NAMES OF COMPANIES INCORPORATED FOR MINING PURPOSES, WITH DATE OF
FROM NOVEMBER 15, 1877,**

Number.	Date of filing certificate.	Name of Company.	Location of Mine.
	1877.		
1	Nov. 23	The Walden Ridge Coal and Iron Co.....	.....
2	Dec. 11	The Buckeye Gold and Silver Mining Co.....	Colorado.....
3	17	Anderson Coal Co.....	Mahoning county.....
4	21	Arkansas and Ohio Mining and Development Co.....	Arkansas.....
	1878.		
9	Feb. 9	Little Beaver Coal Co.....	Columbiana.....
6	27	Grove Coal Co.....	Stark county.....
7	Mar. 15	Ontario Coal and Mining Co.....	Tuscarawas county.....
8	April 3	Nimrod Gold and Silver Mining Co.....	Colorado.....
9	June 5	Bonaparte Consolidated Gold and Silver Min'g Co.....	Idaho.....
10	7	White Cross Consolidated Mining Co.....	Nevada.....
11	Aug. 5	Pomeroy Coal Co.....	Meigs county.....
12	6	Grampion Silver Mining Co.....	Utah Territory.....
13	26	Cambridge Coal Co.....	Guernsey county.....
14	Sept. 19	The Tunnel Coal and Coke Co.....	Perry county.....

* See Manufacturing Companies.

**NAMES OF FIRE INSURANCE COMPANIES INCORPORATED, WITH DATE OF
FROM NOVEMBER 15, 1877,**

Number.	Date of filing certificate.	Name of Company.
	1878.	
1	Jan. 21	Columbus Mutual Fire Insurance Company.....
2	Mar. 6	The Star Mutual Fire Insurance Company.....
3	6	The Alliance Mutual Fire Insurance Company.....
4	Oct. 30	The Xenia Fire Insurance Company.....

**NAMES OF COÖPERATIVE TRADE ASSOCIATIONS INCORPORATED, WITH DATE OF
NOVEMBER 15, 1877,**

Number.	Date of filing certificate.	Name of Company or Association.
	1877.	
1	Dec. 24	Charity Grange, Patrons of Husbandry, No. 1208.....
	1878.	
2	Feb. 11	The Grange Hall Building Association.....
3	11	The Lilly Chapel Grange Association, Patrons of Husbandry.....
4	May 2	Rush Creek Grange No. 67, Patrons of Husbandry.....
5	3	Lilly Chapel Industrial Association.....
6	June 13	Latty Grange No. 621, Patrons of Husbandry.....
7	27	Liberty Center Ohio Coöperative Association No. 150.....
8	Aug. 7	Summit Grange No. 1283.....

FILING CERTIFICATE, LOCATION OF MINE, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.

Location of Office.	Purpose of Organization.	Amount of capital stock.	Number.
Cincinnati	Mining coal, iron, and minerals	*\$150,000	1
Chagrin Falls	" gold, silver, and minerals	100,000	2
.....	" coal and other minerals	20,000	3
Cleveland	" silver and lead	200,000	4
"	" coal and other minerals	5,000	5
"	" coal and other minerals	*100,000	6
"	" coal, iron, and other minerals	*100,000	7
Columbus and Chicago ..	" gold and silver, etc.	1,000,000	8
Cincinnati	" gold and silver, etc.	*2,500,000	9
Cleveland	" gold and silver, etc.	*5,000,000	10
Pomeroy	" coal and freighting salt	125,000	11
Toledo	" silver and other precious metals.	200,000	12
Cambridge	" coal and other minerals	30,000	13
Columbus	" coal and other minerals	25,000	14
		\$9,555,000	

FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Number.
Columbus	\$50,000	1
Cleveland	50,000	2
Alliance	50,000	3
Xenia	100,000	4
		\$250,000

FILING CERTIFICATES, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM
TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Number.
Greene county .....	.....	1
Edinburg	\$5,000	2
Lilly Chapel	3,000	3
Bremen	1,000	4
Lilly Chapel	1,000	5
Gilbert's Mills	350	6
Henry county	2,000	7
Summit county	2,000	8
		\$14,350

**NAMES OF COÖPERATIVE FIRE AND LIFE INSURANCE COMPANIES, MUTUAL AID
LOCATION, FROM NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name of company.
	1877.	
1	Nov. 30	The Patrons' Mutual Insurance Company of Knox County
2	Dec. 14	The Mutual Fire Association
3	17	Buckeye Mutual Aid Association
4	20	Warren County Farmers' Mutual Insurance Association
5	26	Ashland County Patrons' Mutual Insurance Company
	1878.	
6	Jan. 24	The German Mutual Insurance Association
7	Feb. 4	Gegenseitiger Schutz Verein
8	4	The University Gegenseitiger Feuer Versicherung Unterstützung Verein ..
9	5	The Ohio Temperance Mutual Benefit Association
10	7	West and Knox Townships Farmers' Aid Society
11	9	The Union Mutual Fire Insurance Company of Union Township
12	12	Pike Township Farmers' Mutual Insurance Company
13	13	The Young Men's Mutual Life Association
14	14	The Home Mutual Fire Association
15	27	Ohio Mortuary Union
16	27	King Hiram Masonic Mutual Benefit Association
17	27	The Trumbull County Patrons' Mutual Insurance Company
18	Mar. 5	Lordstown Farmers' Mutual Fire Insurance Company
19	4	Odd Fellows' Protection Alliance of Ohio
20	5	Jelloway Mutual Aid Association
21	13	The Huron County Farmers' Insurance Company
22	26	The Stark County Patrons' Mutual Insurance Company
23	April 3	Lake Township Mutual Insurance Company
24	4	The Ohio Life and Benefit Association
25	6	Commercial Life Association
26	22	Farmers' Mutual Relief Association of Seneca County
27	May 3	The Township Line Mutual Protective Association
28	3	Pittsfield Mutual Fire Insurance Association
29	7	Smith Township Aid Society
30	17	The Cleveland Mutual Benefit Association
31	21	The Mutual Life Association
32	25	The German Benevolent Association
33	31	The Insurance Degree of the Grand Division Sons of Temperance of Ohio.
34	June 13	German Independent Mutual Aid Society
35	18	Mutual Life Association
36	25	Brown Township Insurance Company
37	25	Mutual Aid and Life Association
38	Aug. 29	" " (supplemental)
39	30	Ohio Grangers' Mutual Insurance Company
40	Sept. 4	The Pro-rata Fire Insurance Company
41	6	Buckeye Mutual Relief Association
42	10	Washington Mutual Aid Association
43	17	Washington Township Fire and Lightning Insurance Association
44	19	The Christian Church Relief Association
45	20	The Mutual Life Association
46	-----	The Mutual Insurance Company of Richland Township
47	Oct. 4	Ohio Life Association
48	11	The Patrons' Mutual Relief Association
49	10	The Farmers' Mutual Relief Association
50	Nov. 4	Columbia Mutual Aid Society

ASSOCIATIONS, ETC., INCORPORATED, WITH DATE OF FILING CERTIFICATE, AND
TO NOVEMBER 15, 1878.

Location.	Purpose of organization.	Number.
Mt. Vernon	Mutual fire and casualty insurance	1
Toledo	" " "	2
Danville	Mutual life insurance	3
Springboro	Mutual fire and casualty insurance	4
Ashland	" " "	5
Glandorf	" " "	6
Cleveland	" " "	7
"	" " "	8
Columbus	Mutual life insurance	9
Columbiana county	Mutual fire and casualty insurance	10
Petersburg	" " "	11
Pike Township Hall	" " "	12
Cincinnati	Mutual life insurance	13
Canton	Mutual fire and casualty insurance	14
Cleveland	Mutual life insurance	15
Xenia	" " "	16
Warren	Mutual fire and casualty insurance	17
Lordstown Center	" " "	18
Manassfield	Mutual life insurance	19
Jelloway	" " "	20
North Fairfield	" " "	21
Canton	" " "	22
Uniontown	" " "	23
Norwalk	" " "	24
Cincinnati	" " "	25
Tiffin	Mutual fire and casualty insurance	26
Cannon's Mill	" " "	27
Pittsfield	" " "	28
Mahoning county	" " "	29
Cleveland	Mutual life insurance	30
Newark	" " "	31
Akron	" " "	32
Cincinnati	" " "	33
Hannibal	" " "	34
Newark	" " "	35
Malvern	Mutual fire and casualty insurance	36
Bellefontaine	Mutual life insurance	37
"	" " "	38
Jefferson	Mutual fire and casualty insurance	39
Columbus	" " "	40
Nelsonville	Mutual life insurance	41
Mt. Vernon	" " "	42
Plimpton P. O.	Mutual fire and casualty insurance	43
Troy	Mutual life insurance	44
Chillicothe	" " "	45
Marion county	Mutual fire and casualty insurance	46
Newark	Mutual life insurance	47
Butland	Mutual fire and casualty insurance	48
Fremont	" " "	49
Shelby	Mutual life insurance	50

NAMES OF BUILDING AND LOAN ASSOCIATIONS INCORPORATED, WITH DATE OF FILING CER-

Number.	Date of filing certificate.	Name of Association.
	1877.	
1	Nov. 26	The Mount Carmel Loan and Building Association.....
2	Dec. 12	The Savings Building and Loan Association.....
	1878.	
3	Jan. 16	The Fairmount Building, Loan and Savings Association.....
4	24	The German Catholic Aurora Homestead Association.....
5	30	The East Newark Savings, Loan and Building Association.....
6	Feb. 5	The Celtic Building Association.....
7	11	The Citizen's Loan and Building Association.....
8	13	The German Building and Savings Association.....
9	20	City Loan and Building Association.....
10	March 9	The Logan Building and Loan Association.....
11	16	Perpetual Savings and Building Association.....
12	25	Fulton Building and Savings Association No. 4.....
13	27	Emmett Building Association.....
14	April 3	Cincinnati Building and Deposit Association.....
15	13	Der Marietta Bau Verein No. 3.....
16	15	The Newtown Loan and Building Association.....
17	19	Equitable Loan and Building Association.....
18	29	The South West End Building Association.....
19	July 1	Nabant Land and Building Association.....
20	9	Grand Central Building Association.....
21	19	Concordia Building Association.....
22	Aug. 2	The Bank of Commerce.....
23	13	The Lincoln Building Association.....
24	15	Union Building Association.....
25	May 8	The Shelby County Building and Loan Association.....
26	11	Family Building Association No. 1.....
27	Sept. 13	Mount Adams Building and Loan Association.....
28	Oct. 10	Harrison Avenue Loan and Building Association.....

NAMES OF PRINTING AND PUBLISHING COMPANIES INCORPORATED, WITH DATE
NOVEMBER 15, 1877,

Number.	Date of filing certificate.	Name of Company.
	1877.	
1	Dec. 10	The Workingmen's Publishing Co.....
2	13	The Herald Publishing Co.....
	1878.	
3	Jan. 29	Cincinnati Bau Vereins Anzeiger.....
4	Feb. 23	The Republican Democrat Publishing Co.....
5	April 22	Democrat Printing Co.....
6	June 7	Socialistic Printing Co.....
7	26	The Voice Publishing Co.....
8	July 8	Odd Fellow Publishing Co.....
9	Aug. 16	The National Greenback Publishing Co.....
10	31	The Newark National Advance.....

TIFICATES, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM NOV. 15, 1877, TO NOV. 15, 1878.

Location.	Amount of capital stock.	Number.
Mount Carmel	\$200,000	1
Sidney	200,000	2
Cincinnati	600,000	3
"	160,000	4
Newark	100,000	5
Cincinnati	896,000	6
London	200,000	7
Circleville	300,000	8
Urbana	150,000	9
Bellefontaine	150,000	10
Urbana	400,000	11
Cincinnati	600,000	12
"	866,666	13
"	1,000,000	14
Marietta	150,000	15
Newtown	100,000	16
Cincinnati	1,000,000	17
Hamilton county	500,000	18
Cincinnati	110,000	19
"	2,000,000	20
"	1,500,000	21
Columbus	50,000	22
Cincinnati	1,000,000	23
Dayton	270,000	24
Sidney	250,000	25
Cincinnati	1,000,000	26
"	100,000	27
"	1,200,000	28
	\$13,252,666	

OF FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK, FROM
TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Remarks.	Number.
Cincinnati	\$2,000	Printing and publishing a newspaper.	1
Cleveland	200,000	" " etc.	2
Cincinnati	5,000	" " "	3
Ravenna	10,000	" " and other publications.	4
Liberty Tp., Fairfield Co.	2,500	" " etc.	5
Cincinnati	5,000	" " (daily.)	6
Cleveland	20,000	" " "	7
Columbus	2,000	" " books, magazines, etc.	8
Salem	1,000	" " a newspaper.	9
Newark	2,000	" " "	10
	\$249,500		

NAMES OF GAS COMPANIES INCORPORATED, WITH DATE OF FILING CERTIFICATE, LOCA-

Number.	Date of filing certificate.	Name of Company.
	1878.	
1	Jan. 4	Citizens' Gas Light Co
2	March 27	McConnelsville Gas Co
3	June 14	The Gallion Gas Light Co
4	24	The Waverly Gas Light and Coke Co
5	Aug. 29	Mechanicsburg Gas Light Co
6	31	The Marysville Gas Light Co
7	Oct. 25	Upper Sandusky Gas Light Co.....
8	26	Postoria Gas Light Co.....

NAMES OF COMPANIES INCORPORATED FOR THE PURPOSE OF BUILDING STEAM CERTIFICATE AND AMOUNT OF CAPITAL STOCK,

Number.	Date of filing certificate.	Name of Company.
	1878.	
1	Mar. 21	Sterling Transportation Company.....

NAMES OF "COMMON CARRIER" COMPANIES INCORPORATED, WITH DATE FROM NOVEMBER 15, 1877,

Number.	Date of filing certificate.	Name of Company.
	1878.	
1	Feb. 5	Burdett Transportation Company
2	May 22	The Cincinnati Railroad Company
3	Aug. 16	The Cincinnati Tax-payers' Railway Company
4	Sept. 25	The Southern Transportation Company
5	Nov. 14	Ohio Valley Transportation Company.....

TION, AND AMOUNT OF CAPITAL STOCK FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Number.
Dayton	\$100,000	1
McConnelsville	30,000	2
Galion	35,000	3
Waverly	16,000	4
Mechanicsburg	15,000	5
Marysville	20,000	6
Upper Sandusky	25,000	7
Fostoria	25,000	8
	\$266,000	

BOATS, SAIL VESSELS, BARGES, CANAL BOATS, ETC., WITH DATE OF FILING
FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Remarks.	Number.
Middleport.....	\$60,000	Building steamboats, barges, etc.	1

OF FILING CERTIFICATE, LOCATION, AND AMOUNT OF CAPITAL STOCK,
TO NOVEMBER 15, 1878.

Location.	Amount of capital stock.	Remarks.	Number.
Bridgeport.....	\$100,000	Transporting freight and passengers over National pike from Bridgeport to Cambridge.	1
Cincinnati	50,000	Common carrier company.	2
"	10,000	" "	3
"	10,000	Transporting freight on the Ohio River.	4
Portsmouth	25,000	Transporting freight on the Ohio and Mississippi Rivers.	5
	\$195,000		

**NAMES OF COMPANIES WHOSE CAPITAL STOCK HAS BEEN INCREASED OR DECREASED,
AND PRESENT AMOUNT OF CAPITAL STOCK, FROM**

Number.	Date of filing cer- tificate.	Name of Company.
	1878.	
1	Jan. 10	The Forest City Varnish, Oil, and Naphtha Company
2	Feb. 20	White Sewing Machine Company
3	23	Corrugated Elbow Company, of the United States
4	May 31	Cincinnati and Fayetteville Railroad Company
5	June 6	Citizens' Loan and Building Association
6	22	The Western Paint and Roofing Company
7	July 6	Marietta and Shawnee Railway Company
8	31	Toledo and Ann Arbor Railroad Company
9	Sept. 4	Lake Superior Transportation Company
10	Oct. 10	Cleveland and Saginaw Transportation Company

**NAMES OF CHURCHES, SOCIETIES, AND BENEVOLENT ASSOCIATIONS
FROM NOVEMBER 15, 1877,**

Number.	Date of filing cer- tificate.	Name.
	1877.	
1	Dec. 31	Grace Lodge, No. 504, I. O. O. F
	1878.	
2	Feb. 8	Representative Lodge, No. 24, Ancient Order United Workmen
3	March 7	Columbus Female Benevolent Society
4	18	Swanton Lodge, No. 528, I. O. O. F
5	April 13	Onarga Tribe, No. 87, Independent Order Red Men
6	25	Mifflin Lodge, No. 518, I. O. O. F
7	30	Cambridge Lodge, No. 301, I. O. O. F
8	June 20	Allen Lodge, No. 223, I. O. O. F
9	July 24	Perry Lodge, No. 87, Knights of Pythias
10	Aug. 8	Ladies' Lodge of the Daughter Israel
11	28	Fulton Encampment, No. 197, I. O. O. F
12	Oct. 12	Belmont Turners and Beneficial Society
13	Feb. 26	Meigs quarterly meeting
14	May 1	St. Paul's Church
15	Oct. 23	Christian Church

WITH DATE OF FILING CERTIFICATE, THE AMOUNT INCREASED OR DECREASED,
NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Location.	Amount increased.	Amount decreased.	Present amount of capital stock.	Number.
Cleveland	\$150,000 00	.....	\$250,000 00	1
Cleveland	12,500 00	.....	112,500 00	2
Cincinnati .....	.....	\$200,000 00	200,000 00	3
Cincinnati	630,000 00	.....	750,000 00	4
London	40,000 00	.....	240,000 00	5
Cincinnati .....	.....	50,000 00	50,000 00	6
Marietta	300,000 00	.....	750,000 00	7
Toledo	750,000 00	.....	1,500,000 00	8
Cleveland .....	.....	99,700 00	50,300 00	9
Cleveland	17,700 00	.....	24,100 00	10
	\$1,900,200 00	\$349,700 00	\$3,926,900 00	

INCORPORATED, WITH DATE OF FILING CERTIFICATE, LOCATION, ETC.,
TO NOVEMBER 15, 1878.

Location.	Remarks.	Number.
Union	1
Cincinnati	2
Columbus	Amended certificate	3
Swanton	4
Coshocton	5
Gahanna	6
Cambridge	7
Lima	8
Massillon	9
Cincinnati	10
Delta	11
Bellaire	12
Gallia county	13
Steubenville	14
Union	15

**NAMES OF COMPANIES INCORPORATED FOR VARIOUS PURPOSES, NOT INCLUDED IN
AMOUNT OF CAPITAL STOCK, FROM**

Number.	Date of filing cer- tificate.	Name of Company.	Location.
	1877.		
1	Nov. 19	The Cincinnati Base Ball Association	Cincinnati
2	Dec. 19	Cincinnati Building Company	Cincinnati
3	19	Millville Public Hall Association	Millville
	1878.		
4	Jan. 14	The Tri State Fair Association	Toledo
5	18	Consolidated Tank Line Company	Cincinnati
6	24	The Mohawk Brown Stocking Base Ball Associ'n	Cincinnati
7	26	Builders' Exchange	Cincinnati
8	Feb. 6	The Portage County Park Association	Ravenna
9	8	The E. D. Albro Company	Cincinnati
10	March 2	The American District Telegraph Company	Cincinnati
11	12	Columbus Driving Park Association	Columbus
12	April 3	Home Detective Association	Tremont City
13	6	The Knox County Hedge Company	Mt. Vernon
14	9	The Homeopathic Medical Society of Ohio	Columbus
15	19	The Green Township Harvest Home Association	Hamilton county
16	30	Connotton Valley Telegraph Company	Minerva and Leesville
17	May 7	Wool Growers' Exchange	Minerva and Leesville
18	8	Tiffin Water Works	Tiffin
19	20	Geneva Mercantile Company	Geneva
20	24	The Dayton Hedge Company	Dayton
21	June 7	The Great Western Hedge Company	Shreve
22	10	The Winon's Point Shooting Club	Ottawa county
23	10	The Norwood Hall Association	Norwood
24	15	Ashland County Hedge Company	Ashland
25	20	The Zanesville Academy of Medicine	Zanesville
26	22	The Wayne County Hedge Company	Wooster
27	July 6	Union Military and Band Tournament Association	Union county
28	15	The Stark County Hedge Company	Canton
29	Aug. 1	New Orleans Wrecking Company	Cincinnati
30	Sept. 21	The Lake Erie Ice Company	Hamilton
31	25	The Cleveland Skating Park and Base Ball Ass'n	Cleveland
		The Ohio State Society for the Prevention of Cruelty to Animals (supplemental certificate) ..	Cleveland
32	25	Warren Water Works Company	Warren
33	Oct. 8	The Castalia Sporting Club	Cleveland
34	10	The Warren Relief Water Works Company	Warren
35	12	Northern Ohio Ice Company	Sandusky
36	29	The Columbus Gallery of Fine Arts	Columbus
37	30	Huron County Hedge Company	Norwalk
38	Nov. 8	Hamilton Water Works	Hamilton
39	14		

OTHER CLASSIFICATIONS, WITH DATE OF FILING CERTIFICATE, LOCATION, AND
NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Purpose of Organization.	Amount of capital stock.	Number.
Constructing a park for lawful sports.....	\$10,000	1
Building tenement-houses, etc.....	25,000	2
Building a hall for public meetings, etc.....	1,000	3
Holding fairs, etc.....	20,000	4
Dealing in oils, merchandise, etc.....	200,000	5
Constructing park for ball-playing, skating, etc.....	1,500	6
Board of trade.....		7
Holding fairs, etc.....	10,000	8
General lumber business.....	150,000	9
Magnetic telegraphy.....	75,000	10
Horse-racing.....	10,000	11
Detection and punishment of criminals and thieves.....	100	12
Planting and growing hedges.....	6,000	13
Advancement of medical knowledge.....	500	14
Holding festivals and other sports.....	2,000	15
Magnetic telegraphy.....	5,000	16
Dealing in wool.....	50,000	17
Supplying Tiffin city with water.....	100,000	18
Dealing in boots and shoes, woolen cloths, etc.....	20,000	19
Planting and growing hedges.....	150,000	20
Planting and growing hedges.....	1,000	21
Yachting, hunting, fishing, and other sports.....	3,000	22
Building public hall.....	4,000	23
Growing hedges.....	15,000	24
Advancement of medical knowledge.....	500	25
Growing hedges.....	15,000	26
Cultivating taste for music and military science.....	15,000	27
Growing hedges.....	15,000	28
Wrecking boats and vessels.....	10,000	29
Cutting and dealing in ice.....	50,000	30
Ball-playing, skating, and other sports.....	5,000	31
.....		32
Supplying Warren with water.....	100,000	33
Hunting, fishing, and other sports.....	750	34
Supplying Warren with water.....	75,000	35
Cutting and dealing in ice.....	10,000	36
Promotion of science and fine arts.....		37
Growing hedges.....	15,000	38
Supplying city of Hamilton with water.....	150,000	39
	\$1,320,350	

MISCELLANEOUS CORPORATIONS.

RAILROAD CONSOLIDATIONS.

May 8, 1878. Pittsburgh and Lake Erie Railroad Company: Formed by the consolidation of the Youngstown and Pittsburgh Railroad Company with the Pittsburgh and Lake Erie Railroad Company. Capital stock, \$2,000,000.

May 28, 1878. The Toledo and Ann Arbor Railroad Company: Formed by the consolidation of the Toledo and State Line Railroad Company with the Toledo and Ann Arbor Railroad Company, forming a continuous line of road from Toledo, Ohio, to Ann Arbor, Michigan. Capital stock, \$450,000.

July 3, 1878. Oakwood Street Railway Company: Formed by the consolidation of the Dayton View Street Railway Company with the Oakwood Street Railway Company of Dayton, Ohio.

RAILROAD REORGANIZATIONS AND CHANGE OF NAME.

October 11, 1878. Ashtabula and Pittsburgh Railway Company: Reorganization and change of name from Ashtabula, Youngstown and Pittsburgh Railroad Company. Capital stock, \$1,700,000.

November 27, 1877. Waynesville, Port William and Jeffersonville Railroad Company: Change of name to Columbus, Washington and Cincinnati Railroad Company. Decree of court.

OTHER CHANGES OF NAME.

June 14, 1878. The Newark and Shawnee Coal and Iron Mining Company: Change of name to Iron Point Mining Company. Decree of court.

June 1878. The Runnymede Land, Loan and Building Association: Change of name to The United Savings Building Association. Decree of court.

July 27, 1878. St. Clair Street Plank Road Company: Change of name to St. Clair Street Gravel Road Company. Decree of court.

CHANGE OF TIME OF HOLDING ANNUAL MEETINGS.

January 9, 1878. Whitman and Barnes Manufacturing Company: Change of time for holding annual meetings to first Wednesday in September.

January 21, 1878. Cleveland Malleable Iron Company: Change of time for holding annual meetings to first Monday after second Wednesday in September.

April 27, 1878. Milburn Wagon Company: Change of time for holding annual meetings to first Tuesday in February.

June 19, 1878. Cincinnati Musical Festival Association: Change of time for holding annual meetings to first Monday in October.

July 12, 1878. Scioto Valley Railway Company: Change of time for holding annual meetings to second Thursday in February.

CHANGE OF OFFICE.

August 7, 1878. Mutual Protective Association of Patrons of Husbandry: Change of office from Kenton to Columbus, Ohio.

SALE OF CORPORATE FRANCHISE.

April 8, 1878. Westerville Turnpike Company: Sale of corporate franchise.

DISSOLUTION OF COMPANY.

January 21, 1878. Columbus Mutual Fire Insurance Company: Dissolution.

NAMES OF CITIES AND VILLAGES INCORPORATED,

AND TO WHICH ADDITIONAL TERRITORY HAS BEEN ANNEXED, WITH DATE OF FILING COPIES OF PROCEEDINGS AND PLATS, ALSO SURRENDER OF CORPORATE PRIVILEGES, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

Number.	Date of filing.	Name of City or Village.	County.	Remarks.
1	1877. Dec. 5	Delta	Fulton	Annexation.
2	1878. Jan. 9	DeGraff	Logan	Annexation.
3	Feb. 5	Proctorville	Lawrence	General purposes.
4	Feb. 12	East Liverpool	Columbiana	Annexation.
5	Feb. 15	Kingston	Ross	Annexation.
6	Mar. 8	St. Bernard	Hamilton	General purposes.
7	Mar. 22	Vanlue	Hancock	General purposes.
8	May 8	Kent	Portage	Annexation.
9	May 17	Plainfield	Coshocton	General purposes.
10	July 26	Beaver Dam	Allen	General purposes.
11	Aug. 16	Bloomingsburgh	Fayette	Annexation.
12	Nov. 1	Fletcher	Miami	Annexation.

STATIONERY ACCOUNT.

NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

STATIONERY ACCOUNT.

From whom purchased.	Double super-royal—reams.	Cost.	Super-royal—reams.	Cost.	Cover-paper—reams.	Cost.
On hand.....	44	\$317 47	4 87-96	\$55 19		
Comly and Francisco.....	20	76 98	3	45 00		
Shultz & Manning.....	9604½	50,136 84				
Cleveland Paper Company.....					97 7-90	\$439 99
Nevins & Myers.....					17-48	5 53
Totals.....	9668	\$50,531 29	7 87-96	\$100 19	97 169-940	\$445 45
To whom issued.						
House of Representatives.....	3	\$11 38			17-48	\$5 53
Nevins & Myers.....	8340	43,581 48			97 7-90	439 99
Bindery.....	123	652 48				
Brand & Co.....	320	1,670 40				
Elisfritz & Winters.....	320	1,670 40				
Board of Agriculture.....						
Auditor of State.....			3	\$45 00		
Supreme Court Clerk.....						
" " Commission.....						
School Commissioner.....						
Secretary of State.....						
Supreme Court.....						
State Board Charities.....						
Codifying Commission.....						
Attorney-General.....						
Law Library.....						
Senate.....						
Insurance Department.....						
Adjutant-General.....						
Railroad Commissioner.....						
Bureau of Labor Statistics.....						
Treasurer of State.....						
Board of Public Works.....						
Executive Department.....						
State Fish Commissioners.....						
Supervisor Public Printing.....						
Total issued.....	9106	\$47,586 14	3	\$45 00	97 169-940	\$445 45
On hand.....	562½	\$2,945 15	4 87-96	\$55 19		

STATIONERY ACCOUNT—Continued.

Double flat-cap—reams.		Cost.	Flat-cap—reams.		Cost.	Flat-letter—reams.		Cost.	Flat-post—reams.		Cost.	Deny-paper—reams.		Cost.
4 23-80		\$21 42	2		\$6 00	10½		\$21 00	5 35-48		\$16 64	3 15-94		\$23 37
85		370 80	2½		24 90	329 7-120		69 90	20		96 00	12½		70 00
304 3-90		1,619 96	210 379-480		998 54	50		110 76	93		300 48	27		188 85
												1		7 90
303 7-16		\$2,012 18	221 139-480		\$1,029 44	89 67-120		\$201 66	118 35-48		\$413 12	43 11-24		\$289 42
35-96		\$1 50	2 71-160		7 53	77-120		\$1 52	1-160		\$ 01	10 13-15		\$77 06
310 51-60		1,431 73												
75 55-96		548 81	68½		516 88	8 37-120		18 48	1 7-12		5 19	2		13 90
25-48		2 61	1 27-48		5 03	1 13-48		2 82	3 87-480		9 25	2 11-96		11 30
1 55-96		7 87	77 73-480		2-6 01	10 77-480		22 26	70 27-480		236 44	3		20 98
1 83-96		8 05	2 30-48		7 56	9 119-240		21 07	7-96		24	7 179-480		46 25
11-96		49										3		15 40
						19-24		1 75						
10-96		45				11-24		1 01	1-12		28	4 17-48		25 98
10-96		45												2 38
7-16		1 87	3 121-240		13 42	1 51-96		3 39				7 13-16		54 19
			28 139-480		84 33	13 15-16		30 62	1 21-32		5 62	1		3 48
			3 1-24		8 94	10 153-160		29 07	12 383-480		42 22	1 5-24		79
			1½		3 60	1 5-96		2 33	25-96		88			
			4 15-24		13 64	3 79-96		8 46				29-240		80
			1 7-24		3 77	2 5-96		4 31	8 13-120		36	5-16		2 10
			26		76 38	1 9-48		2 65	1 13-180		27 81	1 157-480		8 91
			81-240		1 01	17 1-30		37 79			3 59			
						11-15		1 11						
						11-15		1 61						
391 81-160		\$2,003 83	220 77-120		\$1,028 10	84 37-120		\$190 25	99 427-480		\$321 89	42 95-96		\$283 52
1 149-160		\$8 35	311-480		\$1 34	5½		11 41	18 403-480		\$91 23	13-32		\$5 90

STATIONERY ACCOUNT—Continued.

From whom purchased.	Imperial—reams.	Cost.	Medium—reams.	Cost.	Legal cap—reams.	Cost.
On hand			3 50-160	\$37 35	13½	\$60 37
Siebert & Lilley.....	35-96	\$10 95				
Nevins & Myers.....	2 31-60	77 43				
Comly & Francisco	2	54 00				
Cleveland Paper Co.....	3	87 00	24	239 71		
J. R. Mills & Co.....					48	227 00
Short & Forman.....					6	27 00
Robison, Savage & Co.....					45	221 00
Wiltsch, Baldwin & Co.....						
Geo. W. Gleason.....						
Elliott Jones & Co.....						
Totals	7 141-160	\$229 38	27 51-160	\$277 06	112½	\$535 37
To whom issued.						
Auditor of State.....	3 29-240	\$94 90	1 19-24	\$19 39	1	\$4 00
Treasurer of State.....	47-48	25 00	1-16	70		
Senate	3-8	10 87	2 251-480	26 13	10½	48 44
Insurance Department	1 3-32	31 55	2 15-16	29 35	1	1 00
Fund Commissioners.....					1	2 25
House of Representatives.....			2 5-96	21 62	28½	129 43
Supreme Court Clerk			3 1-48	30 15	1	4 00
Executive Department					3½	14 68
Attorney-General.....			25-96	2 52	11	56 95
Agricultural Department						
Secretary of State.....			2 167-480	22 54	4½	18 56
Railroad Commissioner			2 5-8	25 58	1	2 25
Bindery						
Adjutant-General.....			7-20	3 36	1	3 25
Supreme Court Commission					8½	38 25
Board of Public Works.....					1	4 00
State Fish Commissioners.....					1	2 25
Supreme Court.....					1½	6 25
Supreme Court Reporter					2	9 00
Codifying Commission					3	14 40
Board of State Charities					1	2-25
School Commissioner						
Bureau Labor Statistics.....						
Law Library.....						
State Library.....						
Supervisor Public Printing						
Total issued	5 91-160	\$162 32	17 233-240	\$181 34	78½	\$361 17
On hand	2 15-48	\$67 06	9 167-480	\$95 72	33½	\$174 90

STATIONERY ACCOUNT—Continued.

Footcap—reams.	Cost.	Letter—reams.	Cost.	Note—reams.	Cost.	Post-office—reams.	Cost.	Manilla—reams.	Cost.
33 8-20	\$130 84	11½	\$38 87	7	\$12 10	3 13-20	\$18 95	17 19-20	\$172 03
↓	1 75	↓	1 50	1	1 50	5	25 50		
		47	151 25	106	163 00	10	50 00	20	201 43
		10	30 00	20	35 00			1-2	4 50
		10	30 00	20	35 00	8	28 00		
		10	30 00	20	30 00	3	15 00		
		1	2 25	2	5 50			1-2	7 44
				1	1 35				
33 9-10	\$132 50	89½	\$283 87	177	\$283 45	29 13-20	\$136 75	38 19-20	\$385 40
↓	\$1 75	3½	\$11 75	9	\$16 48	3 3-10	\$13 63	2 9-20	\$32 98
		↓	87	2½	4 75	1	5 00	3-10	3 63
		8½	26 06	19½	28 94	4 3-5	22 80	1 7-10	21 61
↓	1 67	↓	1 50	↓	78	2	10 00	1-2	8 82
		20½	62 36	52	82 36	10 4-5	53 98	4-5	8 85
8	30 66	2	7 00	2	3 50			3 1-10	36 96
		5	16 40	3½	6 25	1-4	56	13-20	10 11
		1	3 00	4	7 00	1-5	1 06	1-2	5 70
								1-10	1 49
2	8 00	4½	14 62	9½	15 85	3 3-20	10 75	1-2	8 82
		1½	4 00	½	1 33	1	3 25	9 19-20	118 43
		3½	11 96	3½	5 50	3-4	3 57	2	11 58
		2½	8 22	6	10 11			2 1-20	57
		1	3 45	5	8 73	1-10	50	1-2	7 35
		2	6 00	1	1 75			1-4	2 85
		2½	8 18	4	7 85	1-4	1 25		
		7	26 25	2	3 48	1	4 10	1 1-5	14 42
		2½	7 50	1½	2 37	3-4	3 75	1-20	30
1½	5 67	2½	8 17	1	1 75			2 2-5	25 11
1	4 00	↓	1 50	↓	1 75	1-2	2 55		
		1	3 00	2	3 15			1-4	4 40
13½	\$51 75	72½	\$231 81	131	\$215 91	29 13-20	\$136 75	27 1-4	\$323 98
20½	\$20 84	17½	\$52 06	46	\$67 54			11 7-15	\$61 42

STATIONERY ACCOUNT—Continued.

From whom purchased.	Blottery—sheets		Bond—sheets		Wrapping—reams.		Oil paper—sheets.	
		Cost.		Cost.		Cost.		Cost.
On hand	760	\$39 08	225	\$5 62			9	\$1 60
Cleveland Paper Company	1,920	72 00			10	\$45 12		
Comly & Francisco			1,500	37 50				
Central Ohio Paper House					5-48	5 85		
Robison, Savage & Co.							36	5 25
J. R. Mills & Co.								
Short & Forman								
Wiltsch, Baldwin & Co.								
Siebert & Litley								
W. J. Morgan & Co.								
Strobridge & Co.								
G. W. Gleason								
Elliott Jones & Co.								
I. C. Aston								
Total	2,680	\$111 08	1,725	\$43 12	10 5-48	\$50 97	45	\$6 93
To whom issued.								
Codifying Commission	66	\$3 29						
Board of Public Works	21	1 00	210	\$5 25			3	\$0 43
Fund Commissioners	24	1 44					6	87
House of Representatives	390	17 22						
Auditor of State	72	3 09	160	4 00				
Adjutant-General	92	4 32	1,305	32 62				
Executive Department	139	5 90					3	56
Secretary of State	193	7 43			10	\$45 12		
Senate	178	7 90						
Supreme Court	30	1 35						
Supreme Court Commission	30	1 35						
Treasurer of State	144	6 31						
Insurance Department	146	5 16						
Attorney-General	24	95						
School Commissioner	24	1 16					4	39
Superior Public Printing	24	80	50	1 25			4	63
State Printers	24	80					4	39
Railroad Commissioner	72	2 70						
Supreme Court Clerk	61	2 54						
Board of State Charities	14	58						
State Library	18	75			5-48	5 85		
Law Library	6	25						
Board of Agriculture	12	40						
State Fish Commissioners								
Bureau Labor Statistics								
Total issued	1,808	\$76 68	1,725	\$43 12	10 5-48	\$50 97	24	\$3 67
On hand	872	\$34 40					21	\$3 26

STATIONERY ACCOUNT—Continued.

Medicated—packages.									
	Cost.	Plain envelopes—number.	Cost.	Official envelopes—number.	Cost.	Letter-heads—reams.	Cost.	Pencils (black)—gross.	Cost.
109	\$19 62	33 500	\$149 69	20,000	\$157 80	60½	\$548 29	72 11 24	\$401 30
		5 000	42 50						
		17,500	73 25						
		18 000	30 30						
612	85 68	63 000	105 75	25,000	122 95	11½	75 00	11	72 00
		20 000	33 50						
		20 000	47 50						
		500	6 25						
				57,000	395 50	53½	399 25		
				3 000	19 50				
								1 112	6 60
								1 112	1 25
								5 17-24	89 05
721	\$105 30	177,500	\$188 74	105 000	\$995 75	125 1-6	\$1,022 54	90½	\$570 20
12	\$1 68	3,900	\$14 45					3 112	\$17 51
		2 750	9 28	2 000	13 00	5	37 50	½	3 72
		1,250	4 08					½	1 84
171	25 58	13,700	41 02	30 400	162 79	4½	400 47	19½	106 14
6	84	5,000	13 98	3 000	19 50			5 1-6	29 20
53	7 66	14 000	49 84			6	42 00	1	5 55
29	4 06	8,950	53 42	15 0 0	105 00	5	25 00	2	11 10
54	7 56	4,300	13 93	3,350	26 42	½	4 55	1 133-144	12 01
183	27 62	6 400	26 19	8,500	49 22	13½	123 92	8½	45 78
15	2 22	2 250	6 52					3	16 78
15	2 22	1,500	4 06					1	5 68
		2 250	7 16	8 000	55 50	5	35 00	1 1-6	6 52
6	1 08	1 000	2 50	10,000	10 00	24½	169 00	½	3 60
12	1 68	1 250	2 69	6,000	43 50	3	30 75	½	4 17
		1,500	4 12					1½	8 33
		2,000	9 05					2 1-36	11 54
4	56	1,250	2 78	3 000	18 00	5	40 00	1 1-6	6 84
12	1 68	1 750	6 13	1,000	7 89	6½	50 00	1	5 55
2	28	2 500	6 13					1-6	93
		250	1 13					1 112	46
		500	1 25						
6	84	1,500	6 66					1	5 55
		1,750	3 76						
		4,000	18 00	3,000	25 50			½	69
580	\$85 56	85,900	\$310 13	93,250	\$606 32	117 19 24	\$958 19	55 41-144	\$309 13
141	\$19 74	91,600	\$178 61	11,750	\$89 43	7½	\$64 35	35 7 144	\$261 07

STATIONERY ACCOUNT—Continued.

From whom purchased.	Carmine-number.	Cost.	Steel-plate-gross.	Cost.
On hand	139	\$13 06	59½	\$35 92
Robison, Savage & Co	73	7 00		
J. R. Mills & Co	222	22 36	260½	241 05
G. W. Gleason			6	5 75
Short & Forman			10	6 50
DeHaan & Co			40	40 00
Shebert & Lilley				
E. O. Randall & Co				
Elliott Jones & Co				
I. C. Aston				
C. R. Hodge				
W. M. Savage				
Wilstach, Baldwin & Co				
Totals	493	\$42 36	376	\$329 22
To whom issued.				
Supreme Court Clerk	12	\$1 08	9	\$11 00
House of Representatives	96	6 94	68 7-12	50 32
Board State Charities	2	18	2	1 55
Treasurer of State	25	2 17	8 1-12	10 80
Executive Department			10 7-12	19 90
Adjutant-General	30	2 76	16	14 34
Auditor of State			14	14 80
Supreme Court			10	13 20
Secretary of State	14	1 17	10 4-12	11 10
State Library			1	55
Senate	32	2 91	53 1-12	38 20
Fund Commissioners			1 1-6	2 20
Codifying Commission	59	4 73	9	7 75
Attorney-General	1	08	11 1-12	10 31
School Commissioner			3	1 80
Insurance Department	18	2 07	6	5 45
Railroad Commissioner	7	80	4 1-12	3 88
State Fish Commissioners			1	60
Law Library				
Supreme Court Commission			2	1 20
Supervisor Public Printing	26	2 43		
Board of Public Works	1	08	4	2 80
Board of Agriculture			3	1 80
Supreme Court Reporter			2	1 20
Total issued	316	\$28 88	249	\$224 67
On hand	177	\$13 48	127	\$104 55

STATIONERY ACCOUNT—Continued.

Quills—dozen.	Cost.	Ruling—number.	Cost.	Gold—number.	Cost.	Rulers—number.	Cost.	Box-wood—number.	Cost.	Metal erasers—number.	Cost.
5 1-6	\$27 17	47	\$11 70			24	\$10 01	1	\$0 75	16	\$3 62
20	130 00	24	21 60					12	3 00	24	6 00
								12	3 00	24	6 00
		1	2 50	1	\$4 00	6	4 50				
		1	90								
		10	5 10	1	3 50					200	54 80
				1	4 50						
				15	50 00						
				1	3 50						
								12	3 00	24	6 00
25 1-6	\$157 17	83	\$41 80	19	\$74 50	30	\$14 51	217	\$54 75	500	\$136 32
9 11-12	\$64 16	6	30								
		8	6 45	4	\$16 00	24	\$10 01	35	\$8 75	166	\$43 92
1 11-12	55	1	90					1	25	1	30
		6	5 40					2	1 00	1	24
1/4	1 62	2	1 00					1	25	2	55
		1	90	5	20 00			1	25	4	1 08
1/4	1 63	1	90	6	23 00			2	50		
								2	50		
6	35 52	11	8 35	2	8 00			6	1 50	4	1 08
										1	30
										72	19 20
		1	05							2	48
		1	90					1	25	1	30
-6	1 10	3	3 50							1	25
-6	1 08							1	25	1	30
1-6	69							1	25		
1-6	1 08	1	90	1	4 00			1	25		
										2	30
17 1-6	\$107 43	42	\$29 55	19	\$74 50	24	\$10 01	133	\$33 75	258	\$68 26
8	\$49 74	41	\$12 25			6	\$4 50	84	\$21 00	242	\$68 00

STATIONERY ACCOUNT—Continued.

From whom purchased.	Rubber—number.	Cost.	Fluid—bottles.	Cost.	Copying—bottles.	Cost.
On hand.....	97	\$13 34	285	\$144 52	20	\$16 60
Wiletsch, Baldwin & Co.....	72	9 45				
J. R. Mills & Co.....	408	52 70				
Short & Forman.....	72	9 45				
Robison, Savage & Co.....	72	9 45				
Republic Printing Co.....			72	28 50		
E. O. Randall & Co.....			3	2 25		
I. C. Aston.....			3	2 25		
G. W. Gleason.....					12	10 00
Elliott Jones & Co.....						
Deasauer Manufacturing Co.....						
R. H. Gardner & Co.....						
C. Houston.....						
Kilbourne, Jones & Co.....						
McCune, Lonnis & Stoner.....						
Totals.....	721	\$94 39	363	\$177 82	32	\$26 60
To whom issued.						
Supreme Court Clerk.....	12	\$1 63	7	\$3 50		
Executive Department.....	14	2 15	5	2 50	2	\$1 66
Auditor of State.....	37	4 99	27	11 00		
Supreme Court Commission.....	40	5 24	9	4 50		
Supreme Court.....	46	5 37	10	4 79		
Treasurer of State.....	27	4 26	6	3 00	1	84
Secretary of State.....	16	2 34	12	7 10	2	1 60
Senate.....	96	11 40	32	15 97		
House of Representatives.....	310	42 32	70	36 24		
Adjutant General.....	10	1 66	9	4 53		
Insurance Department.....	12	2 00	6	3 18	6	4 98
Codifying Commission.....	18	2 57	12	6 00		
Board of Public Works.....	12	1 57	3	1 53	1	84
Fund Commissioners.....	5	1 00				
State Board of Charities.....	1	16	2	1 00		
State Library.....	1	17	5	3 00		
School Commissioner.....	1	17	3	1 53	1	84
State Fish Commissioners.....						
Railroad Commissioner.....			7	3 42	2	1 66
Bureau of Labor Statistics.....			3	1 50		
Attorney-General.....			13	5 46		
Supervisor Public Printing.....			1	50		
Board of Agriculture.....			4	2 00		
Supreme Court Reporter.....			2	1 00		
Law Library.....			1	23		
Total issued.....	659	\$89 00	249	\$123 54	15	\$12 48
On hand.....	62	\$5 39	114	\$34 28	17	\$14 12

STATIONERY ACCOUNT—Continued.

Carmine—bottles.	Cost.	Mucilage—bottles.	Cost.	Mucilage—pinta.	Cost.	Scissors and shears—pairs.	Cost.	Ink stands—number.	Cost.
88	\$78 80	614	\$100 88	6½	\$3 25	153	\$74 12	327	\$81 53
144	12 00							104	62 00
								324	145 80
11	8 82							5	5 60
		576	48 00						
				20	5 80				
				80	30 30				
						563	377 17		
						273	93 21		
243	\$69 62	1,190	\$148 88	106½	39 35	989	\$544 50	760	\$294 93
2	\$1 87			½	25	6	\$2 37	2	34
3	3 10	16	\$2 44	1	39	8	4 53	2	97
2	2 58	24	3 84	6	2 50	12	7 87	6	1 39
		12	1 92			15	7 50		
		12	1 92			17	9 80	1	1 60
1	1 15	18	2 88			5	1 39		
18	3 00	9	1 40	66	23 93	16	6 72	1	22
3	2 75	144	24 44	1½	58	172	77 05	105	35 66
9	2 63	198	33 02	3	1 06	294	133 92	264	92 79
5	1 22	13	2 06			8	3 64	5	1 78
4	3 93	12	1 92	½	19	2	2 50	6	1 39
		7	1 12	4	1 55	3	1 92	1	45
1	87	7	1 12			4	1 87	3	69
1	87	6	96			1	46		
1	87	3	44			1	38		
		1	16	2	90	2	1 75		
1	1 15	24	4 08			1	33		
		12	1 80			4	4 62	1	22
1	08							4	1 90
2	1 23	9	1 44			4	2 17	2	2 00
		2	32			3	1 04	2	90
1	88			6	2 00	1	33	6	1 39
								2	1 80
55	\$35 18	529	\$87 28	90½	\$33 35	579	\$272 07	413	\$145 28
188	\$64 44	661	\$61 60	16	\$6 00	410	\$272 43	347	\$149 65

STATIONERY ACCOUNT—Continued.

From whom purchased.	Pen holders—number.	Cost.	Paper folders—number.	Cost.	Letter books—number.	Cost.
On hand	367	\$8 39	32	\$10 67	7	\$12 47
Wiltsch, Baldwin & Co	720	15 00	24	7 00		
J. R. Mills & Co	1152	22 00	168	74 00	18	30 75
Short & Forman	720	13 75	24	7 00		
Robison, Savage & Co	768	24 25	24	7 00		
Geo. W. Gleason	13	3 46	2	70		
Elliott Jones & Co	12	3 00			3	8 00
American Bank Note Co						
J. McAvoy						
C. Huston						
R. H. Gardner & Co						
Totals	3751	\$29 85	274	\$106 37	28	\$51 22
To whom issued.						
Supreme Court Commission	66	\$2 70	9	\$4 50		
Supreme Court	51	5 04	9	4 50		
Supreme Court Clerk	7	1 50	1	50	1	\$1 50
Senate	650	14 28	48	15 34		
House of Representatives	1482	28 35	156	56 33		
Codifying Commission	85	1 97				
Executive Department	30	59			6	10 31
Insurance Department	36	1 31			3	5 25
Adjutant-General	60	1 18	1	50	3	8 00
Auditor of State	216	4 50	6	3 00	3	5 50
Secretary of State	62	5 78	12	6 00	4	6 06
Supervisor Public Printing	4	87			1	2 00
State Board of Charities	1	02				
Board of Public Works	24	45			1	2 50
Law Library	1	23				
Fund Commissioners	12	25	1	50		
Board of Agriculture	24	46				
Treasurer of State	12	23				
State Library	6	11				
Attorney-General			2	70	3	5 35
Bureau Labor Statistics	6	11				
School Commissioner					2	3 50
Railroad Commissioner	12	22			1	1 25
Total issued	2386	\$70 24	245	\$91 87	28	\$51 22
On hand	865	\$19 61	29	\$14 50		

STATIONERY ACCOUNT—Continued.

Commission heads—number.	Cost.	Carpet brooms—number.	Cost.	Wisp brooms—number.	Cost.	Large sponges—number.	Cost.	Small sponges—number.	Cost.
1366	\$68 28	67	\$16 75	9	\$0 35	11	\$5 50	156	\$11 20
15,000	900 00	48	12 00	72	18 00	48	24 00	120	12 00
16,366	\$068 28	115	\$28 75	81	\$18 35	61	\$30 70	276	\$23 20
				3	\$0 75			6	\$6 60
		2	\$0 50			2	\$1 00		
		13	3 25	24	4 74	7	3 50	13	1 00
		22	5 50	5	61	13	6 70	16	1 36
		1	25			2	1 00		
8415	\$491 74	3	75	1	25			4	36
		1	25	1	25	2	1 00		
910	54 60	4	1 00	2	50	2	1 00	1	10
						2	1 00	6	60
3146	188 24	3	75	1	25	9	4 50	16	1 58
		2	50	1	25			1	08
		1	25	1	25				10
		1	25			2	1 00	10	94
		1	25			2	1 00		
		2	50						
		3	75	7	1 75	2	1 00	24	1 88
		1	25			3	1 50	7	64
						2	1 00	7	56
						1	50		
		4	1 00			2	1 00		
12,471	\$734 58	64	\$16 00	46	\$9 60	33	\$26 70	112	\$9 84
3895	\$233 70	51	\$12 75	35	\$9 75	8	\$4 00	164	\$13 36

STATIONERY ACCOUNT—Continued.

From whom purchased.	Sponge cups—number.	Cost.	Rubber bands—gross.	Cost.
On hand	57	\$11 05	117	\$29 08
Shert & Forman			40	37 50
J. R. Mills & Co			325	190 88
Robison, Savage & Co			100	43 12
Robert H. Gardner & Co				
C. Huston				
Total	57	\$11 05	582	\$300 57
To whom issued.				
House of Representatives	26	\$5 10	135	\$50 40
Senate	12	2 15	52	21 39
Adjutant-General	1	20	17	3 31
Fish Commissioners	1	20		
Supervisor Public Printing	1	20	7	3 41
Supreme Court	1	20	2	60
Treasurer of State	6	1 20	2	46
Law Library	1	20		
Secretary of State	6	1 20		
Auditor of State			19	4 48
Executive Department			21	4 56
Supreme Court Reporter			1	63
Railroad Commissioner			5	3 13
Attorney General			8	4 47
Supreme Court Clerk			13	11 50
Bureau Labor Statistics			1	25
School Commissioner			3	1 25
Insurance Department				
Codifying Commission			4	84
Board Public Works			3	64
Fund Commissioners				
Board of Agriculture			3	2 76
State Library			1	25
Supreme Court Commission			1	1 13
Total issued	55	\$10 65	316½	\$124 83
On hand	2	\$0 40	265½	\$175 74

STATIONERY ACCOUNT—Continued.

Feather dusters—number.	Cost.	Brush cups—number.	Cost.	Brushes—number.	Cost.	Chamois skins—number.	Cost.	Soap—cakes.	Cost.
8	\$20 00	14	\$10 25	49	\$13 13	8	\$6 00	506	\$121 64
				24	2 50				
33	13 00 129 00			50	18 30	42	31 50	876	62 25 219 00
45	\$161 00	14	\$10 25	123	\$33 93	50	\$37 50	1,682	\$102 89
9	\$34 50			17	\$1 30	9	\$6 75	264	\$63 75
7	22 00			12	3 55	3	2 25	182	44 54
1	4 00			2	95	1	75	161	38 59
2	5 00							36	8 89
1	4 00							6	1 44
2	5 50	1	69	1	30	4	3 60	78	18 14
				2	1 50	2	1 50	6	1 50
6	22 50			11	5 90	7	5 25	171	34 49
3	10 00	1	75	1	21	2	1 50	102	23 92
3	10 50	1	69	2	50	2	1 50	27	6 63
2	8 00	1	65	1	30	1	75	15	3 54
1	4 00			4	1 00	1	75	30	6 82
1	4 00							24	6 00
1	3 00								
1	4 00			2	50	3	2 25	24	6 00
1	4 00			6	1 40	1	75	30	7 32
		1	75	1	30	1	75	3	72
1	4 00	1	68	2	60			12	3 00
				1	30	1	75	6	1 50
1	4 00			2	1 35			39	9 60
1	4 00							12	2 94
44	\$157 00	6	\$4 25	68	\$22 98	35	\$28 50	1,228	\$293 31
1	\$4 00	8	\$6 00	55	\$10 93	12	\$9 00	454	\$109 58

STATIONERY ACCOUNT—Continued.

From whom purchased.	Matches—boxes.	Cost.	Tumblers—number.	Cost.	Paper fasteners—number.	Cost.	Eyelets—boxes.	Cost.	Pen racks—number.	Cost.
On hand	533	\$15 17	9	\$0 73	16,400	\$37 78	36	\$10 47	126	\$26 24
C. Huston	1,152	81 60								
J. M. & W. Westwater			36	3 00						
G. W. Heyl					6,000	3 00				
J. R. Mills & Co.					1,000	2 50				
Short & Forman					6,000	14 40				
G. W. Gleason									2	65
Kilbourne, Jones & Co.										
E. O. Randall & Co.										
McCune, Lonniss & Stoner										
Elliott Jones & Co.										
Siebert & Lilley										
Totals	1,685	\$96 77	45	\$3 73	29,400	\$57 68	36	\$10 47	128	\$26 89
To whom issued.										
Auditor of State	190	\$6 16			500	25				
Executive Department	48	2 68			500	25	2	57		
Supreme Court Clerk	24	32	3	24	500	25	2	48		
School Commissioner	30	1 86								
Codifying Commission	106	6 36					2	48	3	73
Secretary of State	81	5 63	1	08	1,900	3 60				
Senate	96	5 44			4,000	9 40			48	10 64
House of Representatives	178	8 41	20	1 65	7,300	17 15			49	9 80
Railroad Commissioner	177	13 84	3	25	500	25				
Law Library	36	3 00			500	25				
State Library	24	1 36								
Adjutant-General	480	23 68	2	18						
Treasurer of State	84	7 00			300	69				
Supervisor Public Printing	24	1 36			1,000	2 35				
Attorney-General	15	1 21			400	56			1	30
Board of Agriculture	96	2 88			100	23				
Fund Commissioners	12	1 10			200	09				
Insurance Department	36	3 00			100	24	1	24	1	20
Board Public Works	18	1 18								
Supreme Court Commission										
Supreme Court					500	25				
State Board of Charities										
Bureau Labor Statistics									1	30
Total issued	1,685	\$96 77	29	\$2 40	18,300	\$35 81	7	\$1 77	103	\$21 89
On hand			16	\$1 33	11,100	\$21 87	29	\$8 70	25	\$5 00

STATIONERY ACCOUNT—Continued.

Punches and sets—number.	Cost.	McGill's presses—number.	Cost.	Cork screws—number.	Cost.	Chips—number.	Cost.	Paper weights—number.	Cost.	Twine—pounds.	Cost.	Paste cups—number.	Cost.
13	\$12 29			7	\$2 62	14	\$7 29	25	\$16 96	93	\$18 33	17	\$2 91
		6	\$18 00		12							12	3 00
								131	41 50				
1	35	5	7 50	15	3 75			2	3 75	146	30 88	12	2 04
								6	12 00	162	31 20		
14	\$12 64	11	\$25 50	34	\$9 37	14	\$7 29	164	\$74 21	401	\$80 41	41	\$7 95
		1	\$3 00					1	\$2 00	23	\$5 06		
1	\$0 95	1	3 00							1	35	1	\$0 17
		1	3 00							5	90	1	17
										8	1 58	1	25
1	89	1	3 00	1	25	2	1 48	2	1 00	3	63	4	76
2	1 90	4	6 00	3	1 13			55	20 86	54	10 96	4	1 00
1	95			3	1 12			97	12 95	25	4 71	7	1 29
3	2 85	1	3 00					2	60	94	17 64	7	1 27
		1	3 00					1	2 00	2	36		
										6	1 21		
										15	2 22		
										12	2 67		
				1	37	2	1 49	1	2 00	5	1 00		
		1	1 50							3	54		
										28	5 79		
1	35					1	30			2	48		
										10	1 84	1	25
										2	36		
										3	56		
				1	25			2	2 30	3	68		
9	\$7 89	11	\$25 50	9	\$3 12	7	\$4 75	93	\$44 71	304	\$59 54	26	\$5 16
	\$4 75			25	\$6 25	7	\$2 54	71	\$29 50	97	\$20 87	15	\$2 79

STATIONERY ACCOUNT—Continued.

From whom purchased.	Bill- files—number.	Cost.	Red tape—spools.	Cost.	White tape—bunches.	Cost.	Seals—number.	Cost.
On hand	16	\$24 33	24	\$9 60	483	\$41 18	6,700	\$35 12
J. R. Mills & Co.	24	3 00	60	21 00			13,700	40 95
G. W. Gleason	6	4 20					1,900	7 13
Snodgrass & Annat								
Souder & Bright								
Siebert & Lilley								
Wiltsch, Baldwin & Co.								
McCune, Lonnis & Stoner								
Kilbourne, Jones & Co.								
C. Huston								
Short & Forman								
Robison, Savage & Co.								
E. C. Aston								
I. O. Hamhall & Co.								
Strobridge & Co.								
Elliott Jones & Co.								
Totals	46	\$31 53	84	\$30 60	483	\$41 10	22,300	\$92 26
To whom issued.								
House of Representatives	2	\$0 25	28	\$10 80	57	\$5 85		
Railroad Commissioner	2	25						
Auditor of State			4	1 50				
Attorney-General			4	1 50	12	96		
Board of Agriculture			6	2 10				
State Library			6	2 10				
Board of Public Works			2	70				
Senate			6	2 10	40	4 45		
Codifying Commission					20	1 60		
Secretary of State					4	32		
Supreme Court Clerk							1,000	\$5 33
Insurance Department							10,000	35 46
Executive Department							3,500	15 93
Supreme Court Commission								
Supreme Court								
Law Library								
State Board of Charities								
Mines Inspector								
Fish Commissioners								
Bureau Labor Statistics								
Supreme Court Reporter								
School Commissioner								
Fund Commissioners								
Treasurer of State								
Supervisor Public Printing								
Adjutant-General								
Total issued	4	\$0 50	56	\$20 80	133	13 18	14,500	\$56 74
On hand	42	\$31 03	28	\$9 80	350	\$28 00	7,800	\$35 52

STATIONERY ACCOUNT—Continued.

Ribbon—bolts.	Cost.	Paper-cutters—number.	Cost.	Diaries—number.	Cost.	Knife erasers.	Cost.	Blank-books—number.	Cost.	Scotch horses—number.	Cost.	Booklets—number.	Cost.
91	\$10 35	47	\$13 33	396	\$600 00	233	\$272 59	226	\$66 52	4	\$1 00		
41	20 50			1	1 75	156	156 00	696	218 35				
36	32 40			18	33 36			27	75 76				
						277	457 67	72	15 59				
						61	45 31		85 92				
						340	433 50			1	2 50	24	\$12 00
						28	56 25					12	4 50
						18	31 50						
						72	72 00						
								3	6 60				
								105	106 45				
								18	47 30				
98	\$61 25	47	\$13 33	415	\$695 11	1,185	\$1,524 22	1,322	\$636 01	5	\$3 50	36	\$16 50
		8	\$1 62	173	\$288 33	402	\$491 16	131	\$94 05			1	37
				2	3 33	12	14 21	2	83			2	\$1 00
				11	18 34	18	32 65	132	138 18				
				3	5 00	6	8 54	6	3 97				
				3	5 00	3	5 91	34	7 81				
				2	3 42	3	5 92	1	69			1	50
				2	11 66	12	22 60	19	35 81			1	38
		12	1 56	64	113 33	224	278 33	71	39 93			2	1 00
				9	15 60	9	17 80	10	6 50			1	56
6	\$4 95	1	13	15	24 59	44	61 32	63	22 54			3	138
6	3 00			4	6 66	7	12 66	13	2 23			2	75
74	51 30			5	8 34	18	18 09	10	17 36				
				10	10 66	15	20 85	24	10 28				
				5	8 34	7	13 16	7	2 98				
				5	8 34	7	11 29	20	8 66				
				2	3 34	4	7 21	2	72				
						1	1 00	6	1 11				
				1	1 66	1	1 97						
						2	2 49						
				1	1 67	1	1 98	1	41			1	50
				1	1 67	1	1 58						
				5	8 34	6	10 16	2	77				
				1	1 66	3	3 97	11	4 56	1	\$2 50	1	50
				15	25 00	25	35 58	11	9 20				
				1	1 67			14	6 05	1	25		
				27	45 00	43	55 84	240	57 21				
60	\$57 25	23	\$3 57	376	\$626 35	274	\$1,136 27	229	472 45	2	\$2 75	15	\$6 82
12	\$6 00	24	\$9 76	39	\$68 76	311	\$387 95	493	\$163 56	3	75	21	\$9 62

STATIONERY ACCOUNT—Continued.

From whom purchased.	Arm-rests—number.	Cost.	Sealing wax—pounds.	Cost.	Stationery cases—number.	Cost.	Scrap books—number.	Cost.	Dividers—number.	Cost.
On hand.....	11	\$6 60	4	\$6 00	10	\$10 00	7	\$6 28	1	\$0 27
J. R. Mills & Co.....			10	7 50			22	32 00		
G. W. Gleason.....							3	6 00		
Elliott Jones & Co.....							2	1 70		
Wilstach, Baldwin & Co.....										
Short & Forman.....										
Robison, Savage & Co.....										
Bindery.....										
Siebert & Lilley.....										
McCune, Lennis & Stoner.....										
J. M. & W. Westwater.....										
Totals.....	11	\$6 60	14	\$13 50	10	\$10 00	40	\$45 98	1	\$0 27
To whom issued.										
Supreme Court Clerk.....	2	\$1 20	2	\$1 50						
Senate.....	3	1 80					1	\$ 90		
House of Representatives.....	3	1 80			1	\$1 00	15	17 48		
Fund Commissioners.....			1	1 50						
Executive Department.....			3 1/2	4 87	2	2 00	2	1 90		
Secretary of State.....			1	25			4	3 90		
Attorney-General.....			1	75			1	1 00		
Adjutant-General.....			1	75			1	1 00		
Mines Inspector.....					1	1 00				
Insurance Department.....					1	1 00				
Bureau Labor Statistics.....					1	1 00				
Auditor of State.....										
Board of Agriculture.....										
Supervisor Public Printing.....										
Railroad Commissioner.....										
Treasurer of State.....										
School Commissioner.....										
Board of Public Works.....										
Supreme Court Commission.....										
Total issued.....	8	\$1 80	5 1/2	\$3 62	6	\$6 00	24	\$36 18		
On hand.....	3	\$1 80	5 1/2	\$3 88	4	\$4 00	16	\$19 80	1	\$0 27

STATIONERY ACCOUNT—Continued.

Office pins—packages.	Cost.	Thermometers—number.	Cost.	Ink vents—number.	Cost.	File boxes—number.	Cost.	Desk blotters—number.	Cost.	Waste baskets—number.	Cost.	Spittoons—number.	Cost.
1 1/2	\$1 50	6	\$16 00	16	\$4 00	78	\$39 00	3	\$8 17	66	\$33 00		
1 1/2	21 50					12	7 80	18	18 00				
5	4 50					120	57 50						
9	4 75												
6	5 70												
						378	161 62						
						12	6 50			1	1 50	10	\$8 37
39 1/2	\$37 95	6	\$16 00	16	\$4 00	600	\$292 42	21	\$36 17	67	\$34 50	10	\$8 37
7	\$6 50			3	\$0 75	60	\$28 75			1	\$1 50		
201-19	19 52	1	\$2 70			49	23 98						
1	98	1	2 66			51	24 90	4	\$7 44				
15-12	2 32					77	36 90	1	2 73				
1 1/2	1 43					76	37 47	1	1 00	2	1 00		
1 1/2	1 42					13	6 41	1	1 00				
1 1/2	1 42					50	23 96			1	50	4	\$3 33
1	48											1	84
2	2 00							1	1 00			1	
1	1 00									3	1 50		
1	1 00					24	12 00						
						14	6 70						
								1	1 00				
										1	50		
38	\$36 65	2	\$5 36	3	\$0 75	414	\$201 07	9	\$14 17	8	\$5 00	5	\$1 17
1 1/2	\$1 30	4	\$10 64	13	\$3 25	2186	\$91 35	12	\$12 00	59	\$29 50	5	\$1 20

STATIONERY ACCOUNT—Continued.

From whom purchased.	Pencil protectors—dozen.	Cost.	Card board—sheets.	Cost.	Pen pullers—gross.	Cost.	Dust pans—number.	Cost.
On hand	8½	\$3 65			1	\$5 00	6	\$1 44
McCune, Lennis & Stoner							12	\$2 04
G. W. Gleason			1800	\$7 90				
Nerina & Myers			306	4 37				
Comly & Francisco			131	2 40				
Bindery								
Siebert & Lilley								
Elliott Jones & Co								
George Cole								
Short & Forman								
J. B. Mills & Co	36	10 50						
Robison, Savage & Co	24	7 00						
R. H. Gardner & Co								
Total	68½	\$20 15	2237	\$13 87	1	\$5 00	18	\$3 48
To whom issued.								
House of Representatives	3	\$0 89					2	\$0 48
State Board of Charities	2	23						
Senate	23	6 73	300	\$3 52				
Railroad Commissioner	3	90						
Adjutant-General	1	30	25	75				
Codifying Commission	1	15					1	
Treasurer of State	2	60	3	45			1	24
Board of Agriculture	1	30						
Supreme Court	1	28					1	24
Secretary of State	1	15						
Executive Department			1800	7 90				
Auditor of State			6	40				
State Library			103	1 55				
Supreme Court Clerk							1	24
Fund Commissioners							1	24
Board of Public Works								
Supreme Court Commission								
Attorney-General								
Insurance Department								
Bureau Labor Statistics								
School Commissioner								
Total issued	35½	\$10 53	2237	\$13 87			6	\$1 44
On hand	32½	\$9 62			1	\$5 00	12	\$2 04

STATIONERY ACCOUNT—Continued.

Call bells—number.	Cost.	Reporters' pads.	Cost.	Assessors' paper—reams.	Cost.	Requisition books.	Cost.	Tie envelopes—dozen.	Cost.	Gun arable—pounds.	Cost.	Pounce—bottles.	Cost.
2	\$5 00	187	\$9 45	5	\$37 60	2	\$1 20						
												3	\$0 48
		784	54 82										
		18	3 60										
		19	11 02										
		6	2 70										
		12	6 96										
								40	\$27 00				
										34	\$6 25		
2	\$5 00	1096	\$88 61	5	\$37 60	2	\$1 20	40	\$27 00	34	\$6 25	3	\$0 48
		273	\$26 29									2	\$0 32
		4	24										
		158	10 06					1	\$0 75				
		1	1 02										
		31	2 13					5	3 75				
		90	5 82							34	\$6 25		
1	\$2 50	48	3 24					2	1 35				
		12	84										
		60	4 20										
		103	10 26									1	16
		36	2 14					84	5 00				
		36	2 28										
		12	84										
		12	84					14	9 30				
		12	72										
		15	1 02										
		42	3 30										
		21	1 47					4	2 70				
		18	1 26										
		6	42										
		3	21										
1	\$2 50	1009	\$78 65					344	\$22 25	34	\$6 25	3	\$0 48
1	\$2 50	17	\$9 96	5	\$37 60	2	\$1 20	54	\$4 15				

DEPARTMENT OF STATE,
BUREAU OF STATISTICS.

STATISTICAL REPORT

OF THE

SECRETARY OF STATE,

TO THE

GENERAL ASSEMBLY OF OHIO,

FOR THE YEAR 1878.

OFFICE OF THE SECRETARY OF STATE,
COLUMBUS, OHIO, *January 8, 1879.*

To the General Assembly of Ohio :

In compliance with the statute, which provides that it shall be the duty of the Secretary of State, annually, to prepare, from the official reports and from whatever other reliable sources to which he may obtain access, as full, accurate, and intelligible tables of the statistics of the State as may be in his power, and report the result of his labors to the General Assembly at its next meeting, I have the honor herewith to submit my second annual report, being for the year ending November 15, 1878.

Very respectfully,

Your obedient servant,

MILTON BARNES,
Secretary of State.

OHIO IN THE GATE-WAY.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY E. B. ANDREWS.

If the early founders of the State of Ohio—the Putnams, the Symmeses, the Perkinses, and others—who had so vast an area of American territory to select from, had been endowed with prophetic vision, and could have seen the West as it appears to-day, could, indeed, have looked upon a geological map and scanned the mineral resources of the West, they could not have chosen a location with more wisdom.

They selected a territory lying south of Lake Erie, the most southern of the great lakes, and north of the Ohio river, thus securing a region of comparatively mild climate in the very best portion of the temperate zone. By Lake Erie they obtained all the benefits of a vast system of water communication with the whole marginal area along the chain of lakes, an area destined, in a short time, to be settled by an industrious population. By the Ohio river on the south, they had connection with Pennsylvania on the east, and with Kentucky—already considerably settled—on the west, and with the whole great interior river system, of which the Ohio forms a part. These means of water communication were of the greatest value for many years, while they were almost the only means, and now that railroads have become so numerous, they are the best and cheapest means of the transportation of the products of the farm and mine, and the statistics show that the tonnage carried by lake and river is immensely large.

In later days, when great lines of railway were needed to connect the sea-board States with the Interior valley, and with all the great West, it was found that all these lines must pass through Ohio. The people of New England, and of a large portion of the State of New York, now secure for

themselves, and for the products of their diversified industries, a route to the West by the New York Central and the Lake Shore railroads. From New York City the Erie railway extends along the southern border of New York, and, by the Atlantic and Great Western, passes to Cleveland and to Cincinnati. The great Pennsylvania Central, connected with New York City and Philadelphia on the sea-board, crosses the mountains, and, by many auxiliary lines, passes through Ohio, to reach all the great cities of the Interior. The Baltimore and Ohio railroad, leaving the sea-board still farther south, crosses the Alleghanies, and, dividing, enters our State at two points, Bellaire and Belpre. By the northern branch it passes to Columbus, the capital of Ohio, and by a bend northwestward from Newark it stretches away through Ohio and Indiana to Chicago. By the southern branch it unites with the Marietta and Cincinnati railroad, and thence has connection with St. Louis and with the heart of the great Interior valley. The fifth, and most southern of the railways from the sea-board States is the Chesapeake and Ohio railway, from Eastern Virginia, which crosses the Alleghany Mountains by light grades, and strikes the Ohio river at Huntington, opposite Lawrence county, in our State. It is only a question of time when the Ohio river will be bridged at this point, or near by, and the needed connections built to unite this road with the great railroad system of the west.

Thus it is seen that all of the great lines of railroad, from the Atlantic States to the Interior, pass through the State of Ohio as their necessary gate-way. In the same way it might be shown that the vast trade of the interior States west of Ohio, and of the Territories and States of the more distant West, is carried eastward by lines which converge to pass through Ohio. Even the teas and silks of Japan and China which enter the Golden Gate pass eastward through Ohio to New York and to London. It is thus evident that a very large portion of the passenger and freight traffic of the United States finds its transit over the territory of our State.

Now, what do we find in this gate-way State? It contains a well-ordered and intelligent population of nearly three millions of people, the census of 1870 showing 2,665,002. Within this State are to be found soils of great fertility, adapted to various agriculture, and mineral resources in coals, iron ores, salt, etc., etc., which are an ample endowment of an industrious people for ages to come. The eastern third of the State is a continuous coal-field, a part of the great Alleghany coal-field, which stretches from Northern Pennsylvania through many States into Alabama. When quantity and quality of coal, and location with refer-

ence to markets are considered, it is evident that no equal area of the Allegheny coal-field is so valuable as that portion of it which lies across the paths of the railroads which pass through the Ohio gate-way. This coal area extends from the Ohio river on the south almost to Lake Erie on the north. It faces, so to speak, a vast coalless district lying to the west and northwest. There is no coal due west of the Ohio field until we reach Western Indiana. There is no coal to the northwest along the southern margins of the lakes—excepting a small and almost valueless field in Michigan—and none whatever in Canada north of the lakes. The fuel supply of this great coalless district can be better furnished from Ohio, by railroads and by water transportation, than from any other coal-field of the West. The very superior quality of the better class of Ohio coals, creates an additional demand for them in the markets of the Northwest. Now, if to the facts that there is a great and rapidly increasing demand for coal from the wide region, west and northwest, and that there is in Ohio the means of supply for centuries to come, we add the third great fact that Ohio lies in the gate-way, with Lake Erie and its vast water connections on the north and the navigable Ohio river on the south, with a large number of railroads between, it will, I think, be admitted that no State in the Union is so admirably situated with reference to the future development and growth of a very great mining industry. New lines of railroads have been constructed and others are partly constructed, to distribute the coals of Ohio to various markets, and no railroads in the State make better returns to their stockholders, or are upon a firmer financial basis, than those roads which, like the Columbus and Hocking Valley, are preëminently coal roads. Many counties contain large bodies of coal which are scarcely known, to develop which no railroads have as yet been constructed. New roads will be needed, not long new lines so much as branches and short connections. With returning financial prosperity it can not be doubted that there will be a large increase in the mining industries of Ohio and that the gate-way State will play a part in the coal supply of the West which will be a surprise even to her own people.

Besides our coals we have vast quantities of iron ore. These ores are found interstratified with the coal seams and other rocks which constitute our Coal Measures. The most famous ore of the State, as it is certainly the richest and finest, is the limonite of the Hanging Rock region—commonly known as the “limestone ore.” From this ore iron of the highest quality of its class has been made for more than fifty years. Other ores, limonites and siderites, are found widely distributed. Blackband ores are now known to be quite abundant, and are found in several different

geological horizons in our Coal Measures. They have been traced from the north into Perry county, where they are now mined, and there is reason to believe that they will be found as far south as the Ohio river. There is, probably, more blackband ore in Ohio than all the other States of our land.

There is an abundance of good coal in Ohio for the smelting of these various ores, but it is not always to be found in the neighborhood of the ores. In a few limited districts we find the ores, coals, and limestones in the same hills, and within a vertical range of one hundred and twenty feet or less, but, as a rule, some of the raw materials are separated in location from the others, and railroads are needed to bring them together. The low price of iron renders it now financially impossible to transport those materials any considerable distance, unless, as in the use of Lake Superior or Missouri ores, a special quality of iron is to be made. I have no doubt whatever that when more full and minute searches are made, they will, in very many cases, be rewarded by finding good iron-making coals near known bodies of ore, or ores near good coals, and, indeed, we may hope to find both coals and ores of excellent quality in counties where they have not yet been recognized.

But besides the native ores lying within the State of Ohio, forming a basis of large iron industries, there are just reasons for believing that the rich ores from the upper lakes will more and more seek the abundant and cheap coal of our State. Such ores are already brought to many of our furnaces to be used alone for the manufacture of pig-iron suitable for steel, or to be mixed with the home ores. Since steel is rapidly supplanting iron for a large number of important uses, may we not expect that the pure ores used for Bessemer and other steels will, in the future, be largely brought to our gate-way State to be smelted? We already send our coals to the lake ports—Toledo, Sandusky, Black River, Cleveland, Ashtabula, and Painesville. The returning cars could take back to the coal-fields the ores brought by water from the upper lakes to these ports. It is believed that these ores can nowhere else find a good fuel so cheap and so abundant as in our State. With the restoration of better times the manufacture of iron, both from native and foreign ores, will be greatly extended. The demand for iron and steel in the West will increase, and no State in the Union can furnish the supply more advantageously. Besides ores and coals, there are in the gate-way almost inexhaustible supplies of fire clay and cement limestone. There is salt enough to be made from our abundant brines to supply the nation. The brine and fuel for its evaporation are often to be obtained at the same spot, as at Pomeroy, Salina,

Cambridge, etc. The quantity of petroleum which has already been obtained in the State is not small, and probably further researches will reveal new localities where productive wells may be secured. With cheap raw materials, with cheap transportation by water and by rail, and with cheap capital, the development of mining and manufacturing industries will be rapid and great, and the gate-way State will be crowned with thrift and prosperity commensurate with the intelligence and enterprise of her people.

ELECTION STATISTICS
OF OHIO.

ELECTION STATISTICS OF OHIO.

VOTE ON GOVERNOR FROM 1803 TO 1850 INCLUSIVE.

Year.	Names.	Vote.	Total vote.
1803.....	Edward Tiffin	4,564	4,564
1805.....	Edward Tiffin	4,783	
1807.....	Return J. Meigs	6,050	4,783
	Nathaniel Massie	4,757	
1808.....	Samuel Huntington	7,293	10,807
	Thomas Worthington.....	5,601	
	Thomas Kirker	33,97	
1810.....	Return J. Meigs	9,924	16,291
	Thomas Worthington.....	7,731	
1812.....	Return J. Meigs	11,859	17,655
	Thomas Scott	7,903	
1814.....	Thomas Worthington.....	15,879	19,752
	Othniel Looker.....	6,171	
1816.....	Thomas Worthington.....	22,931	22,050
	James Dunlap	6,295	
	Ethan A. Brown.....	1,607	
1818.....	Ethan A. Brown	30,194	30,533
	James Dunlap.....	5,075	
1820.....	Ethan A. Brown	34,536	38,209
	Jeremiah Morrow	9,426	
	William H. Harrison	4,348	
	Scattering	240	
1822.....	Jeremiah Morrow	26,059	48,850
	Allen Trimble	22,889	
	William W. Irwin	11,050	
1824.....	Jeremiah Morrow	39,526	60,008
	Allen Trimble	37,108	
1826.....	Allen Trimble.....	71,475	76,634
	John Bigger	4,114	
	Alex. Campbell	4,765	
	Benjamin Tappan	4,192	
	Scattering	187	
1828.....	Allen Trimble	53,970	84,733
	John W. Campbell	51,951	
	Scattering	112	
1830.....	Duncan McArthur	49,668	106,033
	Robert Lucas.....	49,186	
	Scattering	226	
			99,060

VOTE ON GOVERNOR—Continued.

Year.	Names.	Vote.	Total vote.
1832.....	Robert Lucas	71,251	134,469
	Darius Lyman	63,185	
	Scattering	33	
1834.....	Robert Lucas	70,738	138,190
	James Findlay	67,414	
	Scattering	38	
1836.....	Joseph Vance	92,204	178,562
	Eli Baldwin	86,158	
	Scattering	200	
1838.....	Wilson Shannon	107,844	210,037
	Joseph Vance	102,146	
	Scattering	7	
1840.....	Thomas Corwin	145,442	274,762
	Wilson Shannon	129,321	
	Scattering	8	
1842.....	Wilson Shannon	119,774	242,850
	Thomas Corwin	117,902	
	Leicester King	5,134	
	Scattering	40	
1844.....	Mordecai Bartley	146,333	300,304
	David Tod	145,062	
	Leicester King	8,898	
	Scattering	11	
1846.....	William Bebb	118,869	246,196
	David Tod	116,484	
	Samuel Lewis	10,797	
	Scattering	46	
1848.....	Seabury Ford	148,250	297,075
	John B. Weller	147,886	
	Scattering	939	
1850.....	Reuben Wood	133,093	269,038
	William Johnson	121,105	
	Edward Smith	13,747	
	Scattering	93	

VOTE CAST AT STATE AND PRESIDENTIAL ELECTIONS IN OHIO, FROM 1852
TO 1878, INCLUSIVE.

Year.	Officers to be elected.	Names of candidates.	Votes each received.	Total vote cast.
1852.....	President	Winfield Scott	152,523	353,189
		Franklin Pierce	168,933	
		John P. Hale.....	31,732	
1853.....	Governor	Nelson Barrere	85,857	253,866
		William Medill	147,663	
		Samuel Lewis	50,346	
1854.....	Supreme Judge	Joseph R. Swan	186,418	295,573
		S. F. Norris	109,075	
1855.....	Governor	S. P. Chase	146,770	302,065
		William Medill	131,019	
		Allen Trimble	24,276	
1856.....	President	John C. Fremont.....	187,497	386,497
		James Buchanan.....	170,874	
		M. Fillmore	28,126	
1857.....	Governor	S. P. Chase	160,568	329,905
		H. B. Payne	159,065	
		P. Van Trump	10,272	
1858.....	Supreme Judge	William V. Peck	182,942	345,552
		Thomas W. Bartley	162,610	
1859.....	Governor	W. Dennison, Jr	184,557	355,783
		R. P. Ranney	171,226	
1860.....	President	Abraham Lincoln	221,809	442,962
		Stephen A. Douglas	157,421	
		John Bell	12,193	
		John C. Breckinridge	11,303	
		Gerritt Smith	136	
1861.....	Governor	David Tod.....	206,997	358,791
		H. J. Jewett.....	151,794	
1862	Secretary of State....	Wilson S. Kennon.....	178,755	363,070
		W. W. Armstrong	184,315	
1863.....	Governor	John Brough	288,374	475,866
		C. L. Vallandigham	187,492	
1864.....	Secretary of State....	William Henry Smith....	237,210	419,649
		W. W. Armstrong.....	182,439	
1864.....	President.....	A. Lincoln.....	265,654	471,253
		George B. McClellan	205,599	
1865.....	Governor	J. D. Cox.....	233,633	417,430
		George W. Morgan.....	193,797	
1866.....	Secretary of State....	William Henry Smith....	256,302	469,908
		Benjamin LeFever	213,606	
1867.....	Governor	R. B. Hayes	243,605	484,227
		A. G. Thurman.....	240,622	

VOTES CAST AT THE STATE AND PRESIDENTIAL ELECTIONS—Continued.

Year.	Officers to be elected.	Names of candidates.	Votes each received.	Total vote cast.
1868.....	Secretary of State....	I. R. Sherwood..... Thomas Hubbard	267,065 249,682	516,747
1868.....	President	U. S. Grant	280,167	
		H. Seymour	238,621	518,788
1869.....	Governor	R. B. Hayes	235,081	
		G. H. Pendleton	227,580	463,340
		Samuel Scott.....	679	
1870.....	Secretary of State....	Isaac R. Sherwood	221,709	429,585
		William Heisley	205,014	
		Jay Odell	2,862	460,462
1871.....	Governor	Edward F. Noyes.....	238,273	
		George W. McCook.....	218,105	460,462
		Gideon T. Stewart	4,084	
1872.....	Secretary of State....	A. T. Wikoff	265,830	519,655
		Aquila Wiley	251,780	
		F. Schumacher.....	2,045	529,498
1872.....	President	U. S. Grant	281,852	
		Horace Greeley	244,321	448,878
		James Black	2,000	
		Charles O'Connor	1,163	467,455
		Scattering	162	
1873.....	Governor	William Allen	214,654	448,878
		Edward F. Noyes	213,837	
		Gideon T. Stewart	10,278	467,455
		Isaac C. Collins.....	10,109	
1874.....	Secretary of State....	William Bell, Jr	238,406	592,700
		Allen T. Wikoff	221,204	
		John R. Buchtel	7,815	633,062
1875.....	Governor	Rutherford B. Hayes	297,817	
		William Allen	292,273	633,062
		Jay Odell	2,693	
		Scattering	17	659,771
1876.....	Secretary of State....	Milton Barnes	317,856	
		William Bell, Jr	311,220	659,771
		E. S. Chapman.....	1,663	
1876.....	President	Rutherford B. Hayes	330,698	557,503
		Samuel J. Tilden	323,182	
		G. Clay Smith	1,636	591,088
		Peter Cooper.....	3,057	
		James B. Walker.....	76	591,088
		Scattering, etc	1,122	
1877.....	Governor	William H. West.....	249,105	591,088
		Richard M. Bishop.....	271,625	
		Lewis H. Bond	12,449	591,088
		Stephen Johnston	16,912	
		Henry A. Thompson	4,836	591,088
1878.....	Secretary of State....	Milton Barnes	274,120	
		David R. Paige	270,966	591,088
		Andrew Roy	38,332	
		Jeremiah N. Robinson...	5,682	

TABLE SHOWING THE MAJORITY IN EACH COUNTY IN THE

Number.	Counties.	President. 1872.		Governor. 1873.		Secretary of State. 1874.	
		Grant.	Greeley.	Allen	Noyes.	Bell.	Wikoff.
1	Adams		95	403		220	
2	Allen		453	531		356	
3	Ashland		185	583		539	
4	Ashtabula	4086			2001		3110
5	Athens	1627			1121		832
6	Anguize		1355	1353		1266	
7	Belmont	620			220		202
8	Brown		744	976		1000	
9	Butler		1933	1801		2068	
10	Carroll	534			362		342
11	Champaign	874			650		344
12	Clarke	1483			1015		583
13	Clermont		250	472		475	
14	Clinton	1319			941		1184
15	Columbiana	1876			903		408
16	Coshocton		404	655		539	
17	Crawford		1514	1587		1934	
18	Cuyahoga	6418			2601	707	
19	Darke	309		1020		960	
20	Defiance		627	962		1062	
21	Delaware	700			158		75
22	Erie	618			410		134
23	Fairfield		1348	517		1329	
24	Fayette	595			474		369
25	Franklin		1549	2297		1801	
26	Fulton	1384			627		764
27	Gallia	1301			764		512
28	Geauga	2111			1226		1973
29	Greene	2104			1429		1062
30	Guernsey	728			357		434
31	Hamilton		4858	763		4637	
32	Hancock		138	465		412	
33	Hardin	268			86	320	
34	Harrison	608			381		361
35	Henry		350	532		770	
36	Highland	238			72	126	
37	Hocking		510	698		791	
38	Holmes		1441	1506		1557	
39	Huron	1630			804		839
40	Jackson	703			367		124
41	Jefferson	1647			1089		401
42	Knox	43		654		415	
43	Lake	1772			1307		1514
44	Lawrence	1987			815		29
45	Licking		1069	1406		2110	
46	Logan	840			416		321
47	Lorain	2335			2145		1833
48	Lucas	2170			850	262	
49	Madison	309			4	30	
50	Mahoning	1239			457		181
51	Marion		302	661		574	
52	Medina	1099			526		443
53	Meigs	1689			1345		1194
54	Mercer		1064	1097		1178	
55	Miami	843			660		261
56	Monroe		1571	1606		1596	
57	Montgomery		185	362		868	
58	Morgan	788			198		269

STATE, FOR THE YEARS 1872, 1873, 1874, 1875, 1876, 1877, AND 1878.

Governor. 1875.		President. 1876.		Governor. 1877.		Secretary of State. 1878.		Number.
Allen.	Hayes.	Tilden.	Hayes.	West.	Bishop.	Barnes.	Paige.	
386		405			359		200	1
769		1037			1092		986	2
550		635			703		503	3
	4130		4477	3221		3466		4
	782		1218	517		956		5
1750		2039			1191		1388	6
74		48			577		266	7
1319		1112			1148		1607	8
2265		2678			2416		2290	9
	437		506	423		550		10
	482		656	697		857		11
	997		1600	566		1285		12
556		467			816		793	13
	1216		1452	1057		1176		14
	966		1417	814		1419		15
592		794			658		539	16
1770		2053			1917		1565	17
	6046		3773	990		4738		18
1304		1090			1335		1222	19
1265		1365			1078		1072	20
	127		428		118	247		21
	234		46		62	42		22
1553		1827			1744		1808	23
	375		562	266		394		24
1109		1826			2776		1816	25
	991		1100	444		714		26
	520		900	589		550		27
	1930		2195	1542		1743		28
	1983		1904	1028		1494		29
	393		646	360		523		30
	1295	582			3369	1164		31
274		404			488		441	32
81		128				122		33
	285		344	320		390		34
682		918			876		1096	35
55			18		35		147	36
689		784			711		465	37
1779		1930			1780		1500	38
	1186		1490	820		1852		39
	287		568	158		283		40
	595		1145	694		1098		41
297		150			475		579	42
	1558		1800	1253		1214		43
	637		1026	233		970		44
1525		1511			1737		1589	45
	794		973	672		772		46
	2670		2467	1724		2380		47
	1384		1369		484		227	48
	85		46	38			44	49
159			230	127		878		50
772		685			718		426	51
	599		927	615		828		52
	590		1189	807		1253		53
1560		1712			1168		1322	54
	767		879	549		980		55
2113		2343			1835		1863	56
812		1050			1619		1205	57
	200		263	84		128		58

MAJORITIES IN EACH COUNTY—Continued.

Number.	Counties.	President. 1872.		Governor. 1873.		Secretary of State. 1874.	
		Grant.	Greeley.	Allen.	Noyes.	Bell.	Wikoff.
59	Morrow	508	.....	.....	28	.....	162
60	Muskingum	254	.....	226	.....	645	.....
61	Noble	389	.....	36	.....	.....	75
62	Ottawa .....	.....	317	679	.....	848	.....
63	Paulding	342	.....	.....	87	.....	22
64	Perry .....	.....	265	429	.....	874	.....
65	Pickaway .....	.....	307	795	.....	625	.....
66	Pike .....	.....	284	402	.....	359	.....
67	Portage	1040	.....	.....	229	.....	412
68	Preble	614	.....	.....	336	.....	72
69	Putnam .....	.....	856	1192	.....	1170	.....
70	Richland .....	.....	403	612	.....	758	.....
71	Ross .....	.....	61	647	.....	413	.....
72	Sandusky .....	.....	349	715	.....	924	.....
73	Scioto	797	.....	.....	206	420	.....
74	Seneca .....	.....	334	892	.....	866	.....
75	Shelby .....	.....	594	649	.....	747	.....
76	Stark	567	.....	20	.....	772	.....
77	Summit	1796	.....	.....	443	.....	80
78	Trumbull	3548	.....	.....	1771	.....	1153
79	Tuscarawas .....	.....	408	918	.....	980	.....
80	Union	886	.....	.....	492	.....	588
81	Van Wert	119	.....	20	.....	155	.....
82	Vinton .....	.....	26	245	.....	385	.....
83	Warren	1595	.....	.....	1535	.....	986
84	Washington	451	.....	.....	120	122	.....
85	Wayne	235	.....	219	.....	459	.....
86	Williams	794	.....	.....	159	.....	46
87	Wood	1098	.....	.....	274	.....	452
88	Wyandot .....	.....	279	675	.....	546	.....
	Total majorities ..	63,959	26,428	33,272	32,461	41,998	24,796
	Net majorities ..	37,531	.....	817	.....	17,202	.....

MAJORITIES IN EACH COUNTY—Continued.

Governor. 1875.		President. 1876.		Governor. 1877.		Secretary of State. 1878.		Number.
Allen.	Hayes.	Tilden.	Hayes.	West.	Bishop.	Barnes.	Paige.	
.....	130	.....	404	.....	3	271	.....	59
330	.....	225	.....	.....	702	.....	244	60
.....	67	.....	129	21	.....	.....	89	61
719	.....	872	.....	.....	998	.....	1246	62
.....	14	.....	133	.....	11	74	.....	63
945	.....	726	.....	.....	758	.....	704	64
747	.....	824	.....	.....	981	.....	1001	65
610	.....	631	.....	.....	586	.....	702	66
.....	543	.....	706	407	.....	770	.....	67
.....	222	.....	453	105	.....	199	.....	68
1442	.....	1568	.....	.....	1431	.....	1438	69
765	.....	758	.....	.....	1096	.....	912	70
226	.....	254	.....	.....	639	.....	155	71
744	.....	298	.....	.....	717	.....	806	72
.....	259	.....	334	.....	294	206	.....	73
694	.....	722	.....	.....	936	.....	865	74
944	.....	1156	.....	.....	979	.....	926	75
255	.....	362	.....	.....	1024	200	.....	76
.....	1100	.....	1251	382	.....	723	.....	77
.....	2352	.....	3103	2179	.....	2147	.....	78
789	.....	971	.....	.....	1101	.....	901	79
.....	644	.....	867	606	.....	846	.....	80
125	.....	120	.....	.....	181	.....	98	81
409	.....	284	.....	.....	499	.....	345	82
.....	1175	.....	1587	1306	.....	1476	.....	83
86	.....	131	.....	.....	589	.....	235	84
454	.....	589	.....	.....	871	.....	457	85
.....	137	.....	155	23	.....	.....	11	86
.....	723	.....	834	207	.....	211	.....	87
570	.....	540	.....	.....	653	.....	541	88
36,913	42,457 5,541	40,478	47,994 7,516	25,844	48,364 22,520	41,589 3,154	38,435	

ANALYSIS OF VOTE OF OHIO FOR 1876 AND 1877.

Number.	Counties.	Aggregate vote, Nov., 1876.	Aggregate vote, Oct., 1877.	Votes of October, 1877, compared with November, 1876.					
				Change in aggregate.		Change in Democratic vote.		Change in Republican vote.	
				Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.
1	Adams	4,712	4,121	.....	591	.....	325	.....	279
2	Allen	6,030	5,195	.....	835	.....	470	.....	525
3	Ashland	5,432	4,977	.....	455	.....	197	.....	226
4	Ashtabula	9,119	7,308	.....	1,811	.....	364	.....	1,620
5	Athens	5,728	4,808	.....	920	.....	144	.....	845
6	Auglaize	5,087	3,456	.....	1,631	.....	1,248	.....	400
7	Belmont	10,064	9,154	.....	910	.....	392	.....	921
8	Brown	7,068	5,622	.....	1,446	.....	709	.....	745
9	Butler	9,392	8,065	.....	1,327	.....	1,032	.....	770
10	Carroll	3,629	3,386	.....	243	.....	89	.....	172
11	Champaign	6,430	5,938	.....	492	.....	290	.....	249
12	Clarke	8,720	6,665	.....	2,055	.....	751	.....	1,785
13	Clermont	8,187	7,225	.....	962	.....	456	.....	805
14	Clinton	5,631	4,621	.....	1,010	.....	339	.....	734
15	Columbiana	9,724	8,260	.....	1,464	.....	559	.....	1,162
16	Coshocton	5,834	5,149	.....	685	.....	426	.....	290
17	Crawford	6,715	5,270	.....	1,455	.....	867	.....	731
18	Cuyahoga	33,055	25,394	.....	7,661	.....	3,781	.....	6,564
19	Darke	8,239	7,133	.....	1,106	.....	720	.....	965
20	Defiance	4,422	3,587	.....	835	.....	793	.....	503
21	Delaware	6,204	5,219	.....	985	.....	308	.....	854
22	Erie	6,412	5,333	.....	1,079	.....	626	.....	734
23	Fairfield	7,372	6,652	.....	720	.....	436	.....	353
24	Fayette	4,382	3,731	.....	651	.....	148	.....	444
25	Franklin	17,037	13,884	.....	3,153	.....	1,579	.....	2,529
26	Fulton	4,367	3,164	.....	1,203	.....	441	.....	1,097
27	Gallia	5,519	4,628	.....	891	.....	305	.....	616
28	Geauga	3,830	3,014	.....	816	.....	94	.....	748
29	Greene	7,049	5,440	.....	1,609	.....	491	.....	1,457
30	Guernsey	5,604	5,134	.....	470	.....	119	.....	405
31	Hamilton	58,482	47,290	.....	11,192	.....	8,926	.....	11,713
32	Hancock	6,034	5,280	.....	754	.....	361	.....	445
33	Hardin	5,563	5,515	.....	48	.....	22	.....	106
34	Harrison	4,643	4,165	.....	478	.....	108	.....	332
35	Henry	3,988	2,863	.....	1,125	.....	602	.....	560
36	Highland	6,688	6,132	.....	556	.....	267	.....	320
37	Hocking	3,734	3,064	.....	670	.....	383	.....	310
38	Holmes	4,425	3,807	.....	618	.....	391	.....	241
39	Huron	7,586	6,127	.....	1,459	.....	560	.....	1,230
40	Jackson	4,484	3,921	.....	563	.....	109	.....	519
41	Jefferson	7,048	6,058	.....	990	.....	438	.....	889
42	Knox	6,544	6,031	.....	513	.....	238	.....	563
43	Lake	4,143	3,156	.....	987	.....	235	.....	782
44	Lawrence	6,955	5,571	.....	1,384	.....	532	.....	1,325
45	Licking	9,672	8,336	.....	1,336	.....	754	.....	980
46	Logan	5,622	4,988	.....	634	.....	241	.....	542
47	Lorain	7,963	6,223	.....	1,740	.....	558	.....	1,301
48	Lucas	11,978	9,957	.....	2,021	.....	2,000	.....	3,853
49	Madison	4,361	4,321	.....	37	.....	18	.....	26
50	Mahoning	8,090	7,163	.....	927	.....	871	.....	974
51	Marion	4,552	3,882	.....	670	.....	351	.....	384

ANALYSIS OF VOTE OF OHIO FOR 1877 AND 1878.

Aggregate vote in 1877.	Aggregate vote in 1878.	Vote of October, 1878, compared with October, 1877.						Number.
		Change in aggregate.		Change in Democratic vote.		Change in Republican vote.		
		Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	
4,121	4,957	836		328		487		1
5,195	4,975		220		191		85	2
4,977	5,265	228		14		214		3
7,308	7,139		169		412		167	4
4,808	4,208	400			320		119	5
3,456	3,691	235		77			93	6
9,154	8,887		267		414		102	7
5,622	6,266	644		476		17		8
8,065	7,907		158	40		156		9
3,386	3,359		27		111	16		10
5,938	5,918		20		157	3		11
6,665	7,799	1,134		72		791		12
7,225	7,724	499			134		111	13
4,621	5,131	510		218		337		14
8,260	8,277	17			465	140		15
5,149	5,344	195			9	110		16
5,270	5,798	528			9	343		17
25,394	27,400	2,006			2,533	1,215		18
7,133	7,493	360		255		368		19
3,587	3,517		70	54		60		20
5,219	5,880	661		84		449		21
5,333	5,702	369		72		176		22
6,552	6,946	294		204		140		23
3,731	4,298	567		210		338		24
13,884	16,288	2,404		567		1,527		25
3,164	3,936	772		143		413		26
4,628	5,084	456		254		215		27
3,014	2,962		52		222		21	28
5,440	5,479	39			117	349		29
5,134	5,317	183			21	142		30
47,290	51,195	3,905		3,933		8,466		31
5,280	5,535	255			50		3	32
5,515	5,804	289		62		184		33
4,165	3,976		189		173		103	34
2,863	3,146	283		20			200	35
6,132	6,556	424		282		170		36
3,064	3,481	417			56	190		37
3,807	3,330		477		376		96	38
6,127	6,849	722			940	92		39
3,921	4,407	486		166		291		40
6,058	6,005		53		328	76		41
6,031	6,376	345		9			95	42
5,156	3,501	346		52		13		43
5,571	6,040	469			105	632		44
8,336	8,615	279			69	79		45
4,988	4,914		74		56	44		46
6,243	7,027	804			144	512		47
9,957	10,860	903		366		623		48
4,324	4,365	41		10			72	49
7,163	7,223	60			136	615		50
3,882	4,088	206			56	231		51

ANALYSIS OF VOTE OF OHIO FOR 1876 AND 1877—Continued.

Number.	Counties.	Aggregate vote, Nov., 1876.	Aggregate vote, Oct., 1877.	Vote of October, 1877, compared with November, 1876.					
				Change in aggregate.		Change in Democratic vote.		Change in Republican vote.	
				Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.
52	Medina	5,342	4,569	.....	773	.....	259	.....	571
53	Meigs	6,768	5,616	.....	1,152	.....	595	.....	977
54	Mercer	3,976	2,609	.....	1,367	.....	964	.....	420
55	Miami	7,931	6,718	.....	1,213	.....	494	.....	824
56	Monroe	5,281	4,053	.....	1,228	.....	878	.....	370
57	Montgomery	16,919	14,952	.....	1,967	.....	1,041	.....	1,610
58	Morgan	4,591	4,209	.....	382	.....	127	.....	311
59	Morrow	4,600	4,148	.....	452	.....	101	.....	508
60	Muskingum	10,758	9,687	.....	1,071	.....	463	.....	940
61	Noble	4,380	4,134	.....	246	.....	59	.....	167
62	Ottawa	3,556	3,029	.....	527	.....	264	.....	390
63	Paulding	2,493	2,021	.....	472	.....	196	.....	340
64	Perry	5,181	4,840	.....	341	.....	289	.....	321
65	Pickaway	5,961	5,324	.....	637	.....	252	.....	409
66	Pike	3,662	2,924	.....	738	.....	385	.....	340
67	Portage	6,767	6,030	.....	737	.....	382	.....	681
68	Preble	5,636	5,040	.....	596	.....	195	.....	543
69	Putnam	4,789	3,849	.....	940	.....	560	.....	423
70	Richland	8,075	7,384	.....	651	.....	220	.....	558
71	Ross	8,657	7,664	.....	993	.....	347	.....	732
72	Sandusky	6,409	5,507	.....	902	.....	292	.....	712
73	Scioto	6,392	5,550	.....	842	.....	121	.....	749
74	Seneca	8,351	7,120	.....	1,231	.....	570	.....	784
75	Shelby	5,126	4,222	.....	904	.....	597	.....	420
76	Stark	13,335	11,920	.....	1,415	.....	829	.....	1,491
77	Summit	8,952	7,661	.....	1,291	.....	556	.....	1,425
78	Trumbull	9,617	7,973	.....	1,644	.....	446	.....	1,370
79	Tuscarawas	8,132	7,092	.....	1,040	.....	586	.....	716
80	Union	5,036	4,540	.....	496	.....	149	.....	409
81	Van Wert	4,708	4,214	.....	494	.....	271	.....	332
82	Vinton	3,375	3,025	.....	350	.....	68	.....	283
83	Warren	6,713	5,562	.....	1,151	.....	472	.....	753
84	Washington	8,885	7,643	.....	1,242	.....	439	.....	897
85	Wayne	8,641	7,575	.....	1,066	.....	484	.....	766
86	Williams	5,269	4,661	.....	608	.....	239	.....	394
87	Wood	7,355	5,395	.....	1,960	.....	733	.....	1,360
88	Wyandot	4,701	4,167	.....	534	.....	214	.....	357
Totals		659,771	557,503	.....	102,268	.....	22	.....	81,576

ANALYSIS OF VOTE OF OHIO FOR 1877 AND 1878—Continued.

Aggregate vote, Oct., 1877.	Aggregate vote, Oct., 1878.	Vote of October, 1878, compared with October, 1877.						Number.
		Change in aggregate.		Change in Democratic vote.		Change in Republican vote.		
		Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	
4,569	4,539	.....	30	.....	152	61	.....	52
5,616	6,453	837	.....	247	.....	693	.....	53
2,609	3,129	520	.....	306	.....	152	.....	54
6,718	6,850	132	.....	.....	181	250	.....	55
4,053	4,148	95	.....	20	.....	8	.....	56
14,952	16,335	1,383	.....	642	.....	1,056	.....	57
4,209	4,410	201	.....	60	.....	104	.....	58
4,148	4,338	190	.....	.....	90	184	.....	59
9,687	9,997	310	.....	.....	166	292	.....	60
4,134	4,078	.....	56	.....	229	.....	339	61
3,029	3,317	288	.....	41	.....	.....	207	62
2,021	2,335	314	.....	113	.....	198	.....	63
4,840	5,359	519	.....	.....	99	153	.....	64
5,324	5,713	389	.....	.....	167	147	.....	65
2,924	3,472	548	.....	305	.....	189	.....	66
6,030	6,159	129	.....	.....	173	190	.....	67
5,040	5,285	245	.....	40	.....	131	.....	68
3,849	3,328	.....	21	.....	66	.....	73	69
7,384	6,907	.....	477	.....	317	.....	163	70
7,664	8,297	633	.....	.....	14	470	.....	71
5,507	6,187	680	.....	.....	319	408	.....	72
5,550	6,206	656	.....	69	.....	569	.....	73
7,120	8,044	924	.....	265	.....	336	.....	74
4,222	4,222	.....	.....	.....	204	49	.....	75
11,920	11,729	.....	191	.....	688	536	.....	76
7,661	8,108	447	.....	.....	48	293	.....	77
7,973	7,437	.....	536	.....	432	.....	464	78
7,092	6,972	.....	120	.....	381	.....	181	79
4,540	4,227	.....	313	.....	334	.....	94	80
4,214	4,397	183	.....	75	.....	158	.....	81
3,025	3,267	242	.....	46	.....	200	.....	82
5,562	6,155	593	.....	235	.....	405	.....	83
7,643	7,992	349	.....	.....	192	162	.....	84
7,575	8,136	561	.....	51	.....	465	.....	85
4,661	4,830	169	.....	.....	27	.....	61	86
5,395	6,668	1,273	.....	178	.....	182	.....	87
4,167	4,382	215	.....	43	.....	185	.....	88
557,503	591,088	37,095	3,510	10,704	11,363	27,753	2,738	

ABSTRACT OF VOTES CAST FOR REPRESENTATIVES TO THE FORTY-SIXTH
CONGRESS OF THE UNITED STATES FROM THE STATE OF OHIO IN 1878.

FIRST DISTRICT.

County.	Benjamin Butterworth.	Milton Saylor.	Milford Spohn.	Peter H. Clark.	W. G. Halpin.
Hamilton	12,756	12,036	156	275	16
Majority	720				

SECOND DISTRICT.

County.	Thomas L. Young.	Leonard W. Goss.	Geo. W. Platt.	Solomon Ruthen- burg.	Scatter- ing.
Hamilton	12,914	11,940	272	260	3
Majority	974				

THIRD DISTRICT.

Counties.	Emanuel Schultz.	John A. McMahon.	Michael P. Nolan.	David Staley.
Montgomery	7616	8302	244	112
Butler	2905	4849	72	.....
Warren	3831	2286	12	15
Totals	14,352	15,437	328	127
Majority		1,085		

FOURTH DISTRICT.

Counties.	J. Warren Keifer.	William V. Marquis.	W. A. Hance.	S. K. Spahr.	Scatter- ing.
Champaign	3291	2425	64	118	.....
Clarke	4143	2813	464	276	1
Greene	3375	1881	94	41	.....
Logan	2639	2109	88	45	.....
Union	2447	1577	190	2	.....
Totals	15,895	10,805	900	482	1
Majority	5,090				

FIFTH DISTRICT.

Counties.	Harrison Wilson.	Benjamin Le Fever.	Stephen Johnson.	John H. Blackford.	Scattering.
Auglaize	1065	2193	342	.....	.....
Darke	2977	3933	449	20	7
Mercer	854	1978	241	.....	.....
Miami	3722	2164	824	94	.....
Preble	2638	2316	64	205	.....
Shelby	1587	2092	472	.....	.....
Totals	12,843	14,676	2392	319	7
Majority		1,833			

SIXTH DISTRICT.

Counties.	James L. Price.	William D. Hill.	William C. Holgate.	Scattering.
Allen	1866	2834	232	.....
Defiance	1015	2092	363	.....
Fulton	2009	1332	563	.....
Henry	607	1816	682	.....
Paulding	1136	1093	103	.....
Potnam	1051	2502	253	.....
Van Wert	2144	2169	53	1
Williams	2344	2272	295	.....
Totals	12,072	16,110	2,544	1
Majority		4,038		

SEVENTH DISTRICT.

Counties.	James B. Luckey.	Frank H. Hurd.	Henry Kahlo.	W. G. Waters.	Scattering.
Hancock	2343	2732	443	.....	.....
Lucas	3137	3546	4094	4	.....
Ottawa	1027	1693	580	.....	.....
Sandusky	1920	2697	1527	.....	.....
Wood	2851	2514	1249	.....	3
Totals	11,278	13,182	7893	4	3
Majority		1,904			

EIGHTH DISTRICT.

Counties.	Charles Foster.	Ebenezer B. Finley.	Orlando C. Brown.	Martin Deal.	Scattering.
Crawford	2232	3255	217	43	.....
Hardin	3020	2706	4	59	.....
Marion	1850	2130	59	34	.....
Morrow	2176	1826	157	144	4
Seneca	3710	3966	421	.....	.....
Wyandot	1994	2354	2	.....	.....
Totals	14,982	16,237	860	220	4
Majority		1,255			

NINTH DISTRICT.

Counties.	Lorenzo English.	George L. Converse.	Christopher Lewis.	James H. Coulter.	Scattering.
Delaware	2356	2565	101	310	.....
Fayette	2292	1956	86	.....	.....
Franklin	7176	7900	964	119	2
Madison	2100	2135	28	79	.....
Pickaway	2374	3230	96	.....	.....
Totals	16,798	17,726	1275	508	2
Majority		988			

TENTH DISTRICT.

Counties.	Valentine B. Horton.	Thomas Ewing.	Francis F. Smart.	Henry S. Scott.	Scattering.
Fairfield	2572	4354	.....	.....	.....
Gallia	2777	2292	.....	.....	.....
Hocking	1419	1971	76	.....	.....
Meigs	3961	2329	100	27	18
Vinton	1516	1734	.....	.....	.....
Totals	12,245	12,679	176	27	18
Majority		434			

ELEVENTH DISTRICT.

Counties.	W. W. McKnight.	Henry L. Dickey.	John R. Printy.	Scattering.
Adams	2403	2499	4	.....
Brown	2307	3771	154	1
Clermont	3025	3733	946	.....
Clinton	3123	1968	1	4
Highland	3128	3384	2	1
Totals	13,986	15,355	1107	6
Majority		1,369		

TWELFTH DISTRICT.

Counties.	Henry S. Neal.	James Emmitt.	William M. Suiter.	Wm. J. Kirkendall.	Scattering.
Jackson	2349	1922	32	69	3
Lawrence	3499	2088	394	16	.....
Pike	1374	1900	88	37	.....
Ross	4102	3722	297	.....	1
Scioto	3242	2858	31	.....	9
Totals	14,566	12,490	842	122	13
Majority	2,076				

THIRTEENTH DISTRICT.

Counties.	Nelson H. Van Voorhes.	A. J. Warner.	George E. Geddes.	J. M. McElhinny.	Scattering.
Athens	2934	1740	362	155	.....
Monroe	1172	2779	136	2	.....
Morgan	2201	2037	38	112	.....
Noble	1760	1807	464	8	.....
Washington	3760	3587	487	37	1
Totals	11,827	11,950	1487	314	1
Majority		123			

FOURTEENTH DISTRICT.

Counties.	Isaac Morton.	Gibson Atherton.	Thomas J. McGinnis.	Scattering.
Guernsey	2673	2325	196	.....
Licking	2943	4589	931	.....
Muskingum	4540	4783	588	1
Perry	1907	2653	776	.....
Totals	12,063	14,350	2,491	1
Majority		2,287		

FIFTEENTH DISTRICT.

Counties.	Goshorn A. Jones.	George W. Geddes.	George W. Pepper.	Charles W. Kohr.	Scattering.
Coshocton	2332	2889	106	5	1
Holmes	993	2298	5	2	.....
Knox	2299	2983	881	172	.....
Richland	2809	3865	86	69	.....
Tuscarawas	2596	3562	771	8	.....
Totals	11,029	15,597	1,849	256	1
Majority		4,568			

SIXTEENTH DISTRICT.

Counties.	William M'Kinley, Jr.	Aquila Wiley.	Alfred M. Hunter.	James A. Brush.
Ashland	2435	2731	7	-----
Portage	3245	2469	378	56
Stark	5931	5027	719	38
Wayne	3-78	4028	168	-----
Totals	15,489	14,255	1,272	94
Majority	1,234			

SEVENTEENTH DISTRICT.

Counties.	James Mouroe.	Lewis Miller.	Scatter- ing.
Erie	2613	3069	-----
Huron	3415	3344	-----
Lorain	4450	2515	-----
Medina	2648	1853	-----
Summit	4087	3794	1
Totals	17,213	14,575	1
Majority	2,638		

EIGHTEENTH DISTRICT.

Counties.	Jonathan T. Updegraff.	Daniel T. Lawson.	George Smith.	William M. Grimes.	David F. Lawson.
Belmont	3842	4305	685	3	-----
Carroll	1899	1270	96	3	90
Columbiana	4294	3076	839	-----	-----
Harrison	2077	1768	80	11	-----
Jefferson	3208	2174	531	20	-----
Totals	15,320	12,593	2,231	37	90
Majority	2,727				

NINETEENTH DISTRICT.

Counties.	James A. Garfield.	John C. Hubbard.	Grandison N. Tuttle.	C. W. Reeves.	Scatter- ing.
Ashtabula	4916	1566	386	-----	16
Geauga	2208	441	247	-----	1
Lake	2161	757	528	-----	-----
Mahoning	3592	2647	1181	-----	-----
Trumbull	4289	2142	806	98	-----
Totals	17,166	7,553	3,148	98	17
Majority	9,613				

TWENTIETH DISTRICT.

Counties.	Amos Townsend.	Joseph M. Poe.	William H. Doan.	Gilbert O. Shove.
Cuyahoga	13,081	7,271	2,085	4,934
Majority	5,810			

ABSTRACT OF VOTES POLLED IN THE STATE OF OHIO AT THE ANNUAL ELECTION HELD

Number.	Counties.	Secretary of State.				
		Milton Barnes.	David R. Paige.	Jeremiah N. Robinson.	Andrew Roy.	Scattering.
1	Adams	2 49	2549	9	7	....
2	Allen	1871	2557	4	230	....
3	Ashland	2335	2538	8	2	....
4	Ashtabula	4984	1518	197	359	....
5	Athens	2687	1731	327	447	....
6	Auglaize	1028	2416	....	185	....
7	Belmont	3953	42 8	8	689	....
8	Brown	2228	3835	....	187	....
9	Butler	2737	5027	17	52	....
10	Carroll	1904	1354	5	98	....
11	Champaign	3242	2425	119	57	....
12	Clarke	4142	2857	500	244	....
13	Clermont	2932	3725	1	1029	....
14	Clinton	3103	1927	71	1	8
15	Columbiana	4395	2976	16	868	....
16	Coshocton	2338	2877	20	108	....
17	Crawford	1924	3489	113	258	....
18	Cuyahoga	12849	8111	685	5743	....
19	Darke	2980	4292	20	254	....
20	Defiance	1077	2149	....	255	....
21	Delaware	2832	2885	352	78	....
22	Erie	2600	2558	11	524	....
23	Fairfield	2557	4365	9	....	....
24	Fayette	2330	1936	....	63	11
25	Franklin	6555	8371	143	1142	1
26	Fulton	2013	1299	17	582	....
27	Gallia	2501	2251	10	4	....
28	Geauga	2235	492	36	190	....
29	Greene	3380	1886	89	37	....
30	Guernsey	2543	2320	25	118	....
31	Hamilton	25622	24458	8	503	....
32	Hancock	2363	2804	8	362	....
33	Hardin	2908	2786	96	6	....
34	Harrison	2129	1739	11	90	....
35	Henry	767	1863	....	507	....
36	Highland	3191	3335	7	....	....
37	Hocking	1355	1820	....	272	....
38	Holmes	901	2404	2	17	....
39	Huron	3366	1514	136	1814	....
40	Jackson	2294	2011	34	66	....
41	Jefferson	3254	2156	49	525	....
42	Knox	2493	3072	189	601	....
43	Lake	2172	958	2	356	....
44	Lawrence	3242	2312	32	382	....
45	Licking	3061	4650	63	907	....
46	Logan	2761	1989	99	42	....
47	Lorain	4308	2018	99	485	....
48	Lucas	3294	3521	11	3993	....
49	Madison	2093	2137	108	28	....

ON THE EIGHTH DAY OF OCTOBER, A.D 1878, TAKEN FROM THE OFFICIAL RETURNS.

Judge of the Supreme Court.					Member of the Board of Public Works.					Total number of votes.	Number.
William White.	Alexander F. Hume.	William F. Ross.	Ch. Iron A. White.	Scattering.	George Paul.	Rush H. Field.	Delmont La cke.	J. R. Fallis.	Scattering.		
2334	2549	9	10	..	2353	2544	9	.....	7	4957	1
1873	2556	4	228	...	1874	2855	4	229	.....	4975	2
2335	2836	8	7	...	2334	2859	8	7	.....	5205	3
49-4	1513	200	361	.....	4982	1514	199	363	.....	7139	4
2692	1767	323	437	.....	2691	1740	322	437	.....	5208	5
1-27	2419	.....	186	.....	1026	2419	.....	186	.....	3691	6
3931	4250	7	685	.....	3929	4250	7	686	.....	8887	7
2157	3865	.....	179	.....	2230	3842	.....	187	.....	6266	8
2355	5317	14	40	.....	2718	5046	15	51	.....	7907	9
1899	1351	5	100	.....	1907	1361	5	100	.....	3359	10
3292	2435	116	57	.....	3266	2466	107	57	.....	5918	11
4737	2345	425	237	.....	4130	2856	488	245	.....	7799	12
3026	3729	1	859	1	2934	3723	1	1030	.....	7724	13
3698	1927	70	2	.....	3091	1927	69	1	3	5131	14
4401	2974	17	860	.....	4398	2979	17	856	.....	8277	15
2339	2905	21	8-	.....	2334	2901	21	87	.....	5344	16
1920	3434	113	258	.....	1911	3500	114	254	.....	5798	17
12789	80-8	694	5726	.....	12741	8159	691	5825	.....	27400	18
2975	4203	20	259	.....	29-9	4200	20	261	.....	7493	19
1073	2149	.....	288	.....	1070	2149	.....	289	.....	3517	20
2828	2588	354	75	.....	2831	2590	356	71	.....	5880	21
2615	2535	11	526	.....	2566	2553	11	529	.....	5702	22
2-52	4373	9	.....	.....	2547	4378	9	.....	.....	6946	23
2333	1938	.....	53	20	2333	1938	.....	63	.....	4298	24
6542	8400	149	1112	.....	6480	8442	154	1115	.....	16288	25
2015	1299	14	582	.....	2013	1300	14	583	.....	3936	26
2802	2256	9	1	.....	2801	2256	9	.....	.....	5084	27
2239	492	36	188	.....	2235	490	36	193	.....	2962	28
3164	1888	77	38	.....	3378	1892	89	38	.....	5479	29
2761	2394	29	121	.....	2754	2395	29	124	.....	5317	30
25563	24483	8	498	.....	25634	24439	8	497	.....	51195	31
2364	2805	8	362	.....	2362	2805	8	363	.....	5535	32
2907	2783	95	4	.....	2905	2787	95	4	.....	5804	33
2130	1741	11	89	.....	2127	1744	10	76	.....	3976	34
765	1867	.....	505	.....	762	1866	.....	514	.....	3146	35
3190	3337	7	1	.....	3186	3337	5	.....	.....	6556	36
1356	1806	.....	296	.....	1355	1802	.....	297	.....	3481	37
908	2400	2	17	.....	904	2403	2	17	.....	3330	38
3365	1512	137	1813	.....	3368	1513	137	1806	.....	6849	39
2306	2012	34	54	.....	2305	2014	34	52	.....	4407	40
3259	2160	49	516	.....	3262	2157	50	514	.....	6005	41
2472	3079	194	609	.....	2471	3078	197	609	.....	6376	42
2242	831	2	405	4	2245	835	2	405	.....	3501	43
3283	2275	32	429	.....	3281	2279	34	431	.....	6040	44
3000	4685	66	830	1	3004	4681	64	832	.....	8615	45
2764	1981	112	37	.....	2755	1985	102	44	.....	4914	46
4411	2007	96	437	.....	4399	2014	103	488	.....	7027	47
3274	3522	11	4001	.....	3222	3536	11	4040	.....	10860	48
2099	2136	90	26	.....	2097	2138	90	27	.....	4365	49

ABSTRACT OF VOTES POLLED IN THE STATE OF OHIO AT THE ANNUAL

Number.	Counties.	Secretary of State.				
		Milton Barnes.	David R. Paige.	Jeremiah N. Robinson.	Andrew Roy.	Scattering.
50	Mahoning	3562	2684	.....	1184	.....
51	Marion	1770	2196	46	61	.....
52	Medina	2609	1781	49	71	.....
53	Meigs	3678	2425	99	236	.....
54	Mercer	860	2182	.....	5	.....
55	Miami	3814	2834	93	87	.....
56	Monroe	1084	2947	3	86	.....
57	Montgomery	7367	8572	127	254	.....
58	Morgan	2169	2041	146	43	.....
59	Morrow	2126	1855	172	164	.....
60	Muskingum	4584	4828	60	495	6
61	Noble	1719	1808	24	527	.....
62	Ottawa	739	1985	.....	588	.....
63	Panliding	1171	1097	.....	67	.....
64	Perry	1916	2620	.....	823	.....
65	Pickaway	2303	3304	2	97	.....
66	Pike	1314	2016	39	103	.....
67	Portage	3221	2451	73	468	.....
68	Preble	2595	2396	244	31	.....
69	Putnam	1110	2548	.....	162	.....
70	Richland	2928	3840	77	61	.....
71	Ross	3915	4070	.....	292	.....
72	Sandusky	1912	2718	40	1504	.....
73	Scioto	3179	2973	9	26	.....
74	Seneca	3345	4210	.....	544	.....
75	Shelby	1614	2340	5	263	.....
76	Stark	5455	5255	69	969	.....
77	Summit	3923	3200	121	763	1
78	Trumbull	4299	2152	109	82	.....
79	Tuscarawas	2677	3578	8	687	.....
80	Union	2436	1590	184	5	.....
81	Van Wert	2116	2214	6	52	.....
82	Vinton	1450	1795	.....	17	.....
83	Warren	3798	2322	18	6	.....
84	Washington	3626	3861	44	460	1
85	Wayne	3708	4165	5	230	.....
86	Williams	2269	2280	5	269	.....
87	Wood	2901	2690	27	1041	.....
88	Wyandot	1907	2448	12	2	.....
Totals		274,120	270,966	5682	38,332	28

ELECTION HELD ON THE EIGHTH DAY OF OCTOBER, A.D. 1878—Continued.

Judge of the Supreme Court.					Member of the Board of Public Works.					Total number of votes.	Number.
William White.	Alexander F. Hume.	William F. Ross.	Chilton A. White.	Scattering.	George Paul.	Rush H. Field.	Delmont Locke.	J. R. Fallis.	Scattering.		
3647	2700	.....	1092	..	3644	2700	.....	1093	.....	7223	50
1755	2208	48	61	..	1763	2200	50	61	.....	4088	51
2619	1783	44	68	..	2615	1785	43	67	.....	4539	52
3690	2421	100	229	..	3689	2421	100	230	.....	6453	53
859	2185	.....	5	.....	861	2182	.....	5	.....	3129	54
3-10	2834	100	85	.....	3-04	2-59	106	86	.....	4850	55
10-0	2949	3	87	.....	10-8	2948	3	89	.....	4148	56
7352	85-0	126	258	.....	7350	8533	130	257	.....	16335	57
2168	2018	141	43	.....	2167	2048	140	43	.....	4410	58
2128	1851	174	161	3	2124	1857	172	163	2	4338	59
4542	4868	49	500	6	4499	4904	51	505	6	9957	60
1709	1811	34	526	.....	1706	1812	35	527	.....	4078	61
736	1986	.....	588	.....	735	1985	.....	589	.....	3317	62
1171	1097	.....	68	.....	1170	1097	.....	68	.....	2335	63
1905	2621	.....	835	.....	1923	2625	.....	833	.....	5359	64
2302	3307	2	97	.....	2299	3309	2	97	.....	5713	65
1312	2016	40	104	.....	1313	2015	39	103	.....	3472	66
3232	2436	73	410	.....	3230	2442	73	407	.....	6159	67
2503	2498	232	27	.....	2593	2400	239	30	.....	5285	68
1109	2546	..	164	.....	1106	2545	.....	166	.....	3828	69
2924	3834	78	64	.....	2867	3886	77	60	.....	4907	70
3922	4065	.....	287	.....	3907	4073	.....	291	.....	8297	71
1909	2718	40	1506	.....	1903	2711	40	1508	.....	6187	72
3179	2974	8	26	.....	3180	2975	8	26	.....	6206	73
3346	4215	.....	539	.....	3300	4261	.....	536	.....	8044	74
1611	2345	5	262	.....	1600	2353	5	256	.....	4222	75
5507	5256	71	909	.....	5450	5321	69	905	.....	11729	76
4049	2091	131	899	1	4254	2819	126	859	.....	8108	77
4396	2154	110	754	.....	4390	2153	110	757	.....	7437	78
2691	3569	9	681	.....	2688	3-09	8	670	.....	4972	79
2432	1593	184	5	.....	2428	1594	186	5	.....	4227	80
2118	2213	6	51	.....	2120	2209	6	52	.....	4397	81
1454	1795	.....	11	.....	1454	1795	.....	11	.....	3267	82
3784	2332	17	5	.....	3800	2320	18	6	.....	6155	83
3627	3857	46	460	.....	3630	3-73	46	466	.....	7992	84
3730	4173	3	203	.....	3725	4173	3	203	.....	8136	85
2271	2280	5	269	.....	2271	2280	5	269	.....	4830	86
2900	2785	27	1043	.....	2894	2687	28	1045	.....	6668	87
1903	2452	12	2	.....	1902	2452	11	2	.....	4382	88
274,337	270,839	5607	37,926	36	273,927	271,178	5685	38,033	18	591,088	

STATE ELECTIONS—1876, 1877, AND 1878.

ADAMS COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Ray.	Jere N. Robinson.	
Bratton	236	174	511	72	102	187	..	..	174	106	121	..	..	234
Franklin	222	159	381	135	175	..	..	..	222	92	199	..	..	292
Green	304	225	530	197	246	..	..	..	311	161	225	5	..	395
Jefferson	121	191	315	170	112	..	..	..	441	319	273	..	..	509
Liberty	119	171	298	142	117	..	10	..	282	189	111	1	..	302
Manchester	256	145	373	110	174	..	..	..	272	174	132	..	..	315
Meigs	175	110	287	82	147	..	..	..	284	159	261	..	..	422
Monroe	180	91	273	76	125	..	..	..	211	104	176	..	..	293
Oliver	102	177	297	135	62	..	..	..	201	92	131	..	..	290
Scott	309	223	531	197	290	..	..	..	198	156	104	..	..	266
Sprigg	226	132	420	124	272	..	..	..	489	244	320	..	..	568
Tiffin	83	163	255	163	76	..	6	..	399	170	260	1	..	442
Wayne	141	120	329	165	136	..	8	..	245	194	83	..	5	291
Winchester .....	..	..	..	..	..	..	..	..	312	189	148	..	4	341
Totals	2546	2141	4740	1862	2221	..	24	..	4121	2349	2549	7	9	4957

ALLEN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Ray.	Jere N. Robinson.	
Amanda	167	90	258	68	123	..	1	1	194	59	113	3	..	175
Angulaze	142	233	375	201	137	..	4	..	351	197	146	6	..	349
Bath	157	139	296	95	142	..	..	..	237	79	146	3	..	239
German	247	97	347	58	205	..	9	2	275	79	195	3	..	277
Jackson	273	130	403	112	242	..	..	..	354	127	218	3	..	351
Lima—	..	..	..	..	..	..	..	..	..	..	..	..	..	..
First Ward	230	282	522	223	219	..	43	..	498	204	181	93	..	478
Second "	168	263	435	241	176	..	2	9	421	211	163	32	..	411
Third "	273	67	342	47	238	..	..	..	13	297	58	216	15	290
Marion	519	299	810	204	438	..	..	58	700	224	434	43	..	704
Morton	202	221	425	188	182	..	1	375	167	173	..	..	..	340
Ontawa	44	47	91	12	7	..	..	..	19	11	7	1	..	19
Perry	179	135	329	113	161	..	4	279	96	164	5	..	..	264
Richland	414	174	588	..	..	..	..	..	..	..	..	..	..	..
Bluffton Precinct .....	..	..	..	79	219	..	..	..	328	63	223	..	..	286
Beaver Dam Precinct .....	..	..	..	83	116	..	..	..	199	78	95	..	..	173
Shawnee	155	98	253	76	135	..	1	..	213	69	126	1	4	199
Spencer	221	94	317	46	176	..	15	239	32	155	22	..	..	210
Sugar Creek	117	122	239	113	102	..	..	..	216	107	102	..	..	210
Totals	3518	2481	6030	1956	3048	..	13	150	5195	1871	2857	230	4	4975

ASHLAND COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Clear Creek.....	81	196	279	172	75	..	2	...	257	189	89	...	...	277
Green.....	290	203	294	154	276	...	...	...	432	159	256	...	1	418
First Ward.....	...	...	...	...	...	...	...	...	...	34	32	1	1	67
Second Ward.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hanover.....	380	184	566	150	339	...	1	...	501	114	151	...	...	572
First Ward.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Second Ward.....	...	...	...	...	...	...	...	...	...	49	130	1	...	181
Jackson.....	255	114	323	100	202	...	2	...	304	102	188	...	...	293
Lake.....	146	31	179	29	144	...	...	...	173	30	140	...	...	171
Montgomery.....	496	510	1007	484	493	...	...	1	981	548	524	...	...	1072
Milton.....	194	75	270	68	179	...	...	...	247	82	188	...	...	271
Milfin.....	132	53	185	50	127	...	...	...	177	49	129	...	...	178
Mohican.....	260	100	360	107	225	...	1	...	333	122	224	...	...	347
Orange.....	200	153	353	120	194	...	1	1	316	144	197	...	...	341
Perry.....	181	157	338	137	161	...	...	...	300	140	169	...	7	316
Ruggles.....	43	140	186	124	46	...	...	...	170	126	41	...	...	169
Sullivan.....	54	143	198	142	46	...	...	1	150	144	53	...	...	200
Troy.....	68	139	201	115	51	...	...	...	167	115	69	...	...	185
Vermillion.....	291	173	471	169	266	...	2	...	436	178	260	...	...	447
Totals.....	3021	2387	5432	2121	2824	...	9	3	4977	2335	2838	2	8	5205

ASHTABULA COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Andover.....	42	241	291	212	47	...	4	...	264	213	24	6	7	250
Ashtabula.....	491	623	1130	359	336	...	6	37	743	383	261	95	7	804
Austinburg.....	54	262	320	213	54	...	...	...	268	203	37	14	2	257
Cherry Valley.....	44	147	193	115	40	...	5	...	160	122	33	2	2	159
Colebrook.....	66	105	234	141	54	...	2	...	197	121	28	13	6	168
Conneaut.....	170	571	746	432	131	...	4	13	573	412	120	15	5	556
Denmark.....	42	92	137	58	42	...	2	...	102	51	31	4	3	89
Dorset.....	54	97	151	70	44	...	2	...	117	65	35	2	16	119
Geneva.....	127	586	713	489	121	...	13	...	630	460	97	9	44	632
Harpersfield.....	40	256	296	184	34	...	...	...	218	184	96	10	4	224
Hartsgrove.....	65	139	204	106	53	...	...	10	169	103	46	17	1	167
Jefferson.....	104	377	485	327	99	...	3	...	431	328	101	...	10	451
Kingsville.....	109	366	415	238	100	...	5	...	343	228	79	1	1	320
Lenox.....	42	177	219	150	34	...	1	...	185	143	29	...	5	177
Monroe.....	62	317	381	204	49	...	2	...	257	206	33	2	6	248
Morgan.....	62	277	340	213	76	...	1	...	290	210	48	27	12	297
New Lyme.....	59	144	205	115	59	...	4	...	180	127	63	2	6	199
Orwell.....	82	170	252	136	75	...	...	...	212	124	68	1	5	198
Pierpont.....	43	238	281	213	27	...	...	...	229	155	14	33	1	203
Plymouth.....	61	122	184	96	56	...	1	...	154	98	39	11	...	149
Richmond.....	58	165	228	127	56	...	11	...	194	117	49	4	20	192
Rome.....	39	143	182	128	36	...	...	...	211	119	27	...	4	150
Saybrook.....	138	220	361	107	112	...	4	...	288	156	93	25	3	277
Sheffield.....	38	154	192	101	33	...	...	...	135	86	22	7	...	115
Trumbull.....	46	209	255	146	49	...	3	...	198	127	27	58	3	216
Wayne.....	29	191	220	156	22	...	1	...	180	146	14	...	1	163
Williamsfield.....	74	178	254	116	70	...	17	...	184	103	33	1	17	154
Windsor.....	45	204	250	156	38	...	...	...	194	154	41	...	6	201
Totals.....	2294	6771	9119	5151	1930	...	88	63	7308	4984	1518	359	197	7139

ATHENS COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Athens	202	606	822	492	262	....	42	....	760	525	201	13	81	....	820
Ames	72	212	332	187	58	....	....	....	246	186	74	2	2	....	265
Alexander	106	191	297	158	98	....	16	....	272	148	87	....	32	....	269
Bern	43	191	215	138	37	....	....	....	175	158	33	....	2	....	193
Canaan	197	120	317	88	188	....	....	....	277	85	170	1	5	....	261
Carthage	120	143	264	103	85	....	....	....	189	102	24	10	16	....	214
Dover	131	228	361	167	129	....	....	....	299	182	100	20	19	....	322
Lee	63	201	266	154	58	....	24	....	238	126	59	8	55	....	247
Lodi	164	167	336	107	154	....	20	....	292	94	130	....	29	....	260
Rome	170	304	479	184	110	....	17	....	311	224	92	18	29	....	369
Trumble	83	180	263	111	96	....	....	....	211	138	74	12	....	....	224
Troy	170	251	433	177	114	....	25	....	317	187	131	29	24	....	371
Waterloo	220	213	435	165	178	....	1	....	344	167	132	49	7	....	356
York	454	466	8-8	337	484	....	13	....	837	365	358	285	26	....	1037
Totals	2105	3413	5728	2568	2051	....	145	15	4798	2687	1731	447	327	....	5208

AUGLAIZE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Clay	147	104	251	73	75	.....	.....	.....	144	71	92	.....	.....	163
Duchonquet	202	164	426	123	172	.....	.....	.....	294	128	64	2	.....	295
Wapakoneta—															
1st Ward	74	39	113	31	72	.....	.....	.....	103	34	66	1	.....	101
2d "	148	85	233	72	110	5	.....	.....	190	66	112	2	.....	192
3d "	135	51	186	38	113	.....	.....	.....	152	32	126	.....	.....	158
German	301	95	396	64	130	.....	.....	3	201	52	162	111	.....	327
Goshen	94	81	181	61	67	.....	.....	.....	128	60	72	.....	.....	134
Jackson	592	6	528	3	287	.....	.....	.....	294	4	38	.....	.....	332
Logan	155	65	220	38	96	.....	.....	.....	134	19	69	.....	.....	110
Moulton	185	84	269	76	145	.....	.....	.....	220	47	103	1	.....	155
Noble	199	57	256	40	107	.....	.....	.....	147	42	131	.....	.....	174
Pucheta	228	64	292	44	169	1	.....	.....	215	39	160	.....	.....	199
Salem	176	71	247	35	118	.....	.....	.....	154	35	137	3	.....	177
St. Mary's	501	170	671	105	374	.....	.....	.....	455	109	416	27	.....	556
Union	218	100	318	76	156	1	.....	.....	236	84	174	.....	.....	276
Washington	94	152	246	132	49	.....	.....	.....	174	89	48	.....	.....	138
Wayne	151	131	284	114	99	.....	.....	.....	213	117	94	.....	.....	214
Totals	3560	1521	5087	1121	2339	7	.....	3	3459	1028	2416	285	.....	3691

SECRETARY OF STATE.

201

BELMONT COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jerre N. Robinson.			
Bellair City—																
1st Ward.....	75	135	212	83	68			36	187	79	47	67			195	
2d ".....	213	101	315	77	213			7	299	82	169	48			298	
3d ".....	162	157	320	137	154			17	309	131	127	47			304	
4th ".....	138	209	358	143	130			29	308	144	103	64			312	
5th ".....	10	166	227	74	48			87	28	79	34	82			195	
Colerain.....	129	209	339	171	131		1	4	307	168	124		1		292	
Flushing.....	123	253	357													
Flushing Prec't.....				155	87				242	157	103	3			264	
Belmont Ridge Prec't.....				60	42			3	105	58	41	2			183	
Goshet.....	231	235	477	198	210			23	431	156	182	78			416	
Kirkwood.....	149	260	427													
Hendrysburgh Prec't.....				134	138		1	23	296	125	96	65			287	
Sewellsville Prec't.....				72	19			19	110	49	20	39			109	
Mead.....	261	141	405	106	197				303	85	194	11			290	
Pease—																
Bridgeport Prec't.....	236	350	587	341	213			10	564	282	182	8			513	
Martin's Ferry Prec't.....	453	490	948	378	367		2	58	819	397	352	65	1		814	
Pultney.....	262	201	464	138	230			21	389	123	190	26			339	
Richland—																
St. Clairsville Prec't.....	472	350	825	330	460		11		812	342	450	8	3		805	
Glencoe Prec't.....	175	59	234	39	163		3		209	41	147	9			197	
Smith.....	223	120	349	95	200		10		317	97	221	3	2		324	
Somerset.....	230	230	462	172	207		9		392	163	204	3			371	
Union.....	241	187	429	188	245		1	5	429	171	214	21			406	
Warren.....	419	603	1026	502	411		23	14	959	553	361	29	1		933	
Washington.....	144	168	314	138	134				274	138	127	7			273	
Wayne.....	221	143	364	120	191				313	108	167	1			277	
Wheeling.....	185	127	312	112	176				290	107	181				289	
York.....	2-2	111	313	94	190				281	78	180	3			261	
Totals	5924	4976	11064	4035	4632		61	358	9154	3953	3218	689	8		8887	

BROWN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jerse N. Robinson.			
Byrd	113	174	287	150	100	...	...	...	250	163	101	...	...	...	264
Clark	246	20	347	67	189	...	...	...	257	67	249	1	...	...	317
Eagle	164	107	271	73	122	...	...	...	194	109	150	...	...	...	262
Franklin	227	43	275	31	166	...	...	...	197	24	226	2	...	...	252
Green	199	134	336	113	198	...	...	...	314	106	217	11	...	...	335
Huntington	401	239	662	182	297	...	...	...	479	200	360	3	...	...	569
Jackson	151	72	224	50	131	...	...	2	184	70	152	3	...	...	224
Jefferson	137	169	306	142	124	...	...	...	266	141	148	1	...	...	291
Lewis—																
Higgin-port Precinct	257	169	441	142	197	...	4	...	345	129	196	15	...	...	340
Freeburg Precinct	183	91	277	66	144	...	...	...	211	54	169	11	...	...	234
Perry	537	86	624	51	447	...	...	...	500	47	516	1	...	...	564
Pike	161	106	268	71	151	...	...	...	227	61	145	26	...	...	233
Pleasant	370	285	659	200	321	...	1	11	539	195	331	56	...	...	583
Scott	167	75	246	54	141	...	...	...	199	59	148	1	...	...	208
Sterling	195	143	338	106	147	...	...	...	254	91	158	32	...	...	283
Union	428	853	1285	624	372	...	14	...	1010	604	427	20	...	...	1053
Washington	132	110	244	85	109	...	...	...	196	108	142	4	...	...	254
Totals	4068	2956	7068	2211	3339	..	19	13	5622	2228	3835	187	....	....	6266

BUTLER COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Hamilton—															
1st Ward	352	216	.....	206	306	29	.....	.....	544	163	318	5	.....	.....	495
2d "	482	128	.....	89	405	35	.....	.....	530	135	365	5	.....	.....	514
3d "	435	324	.....	237	335	137	.....	.....	710	278	367	27	.....	.....	679
4th "	399	130	.....	98	229	90	.....	.....	479	125	292	14	.....	.....	432
Fairfield—															
Eastern Precinct.....	185	56	.....	36	162	3	.....	.....	201	50	165	.....	.....	.....	217
Western "	241	118	.....	85	176	9	.....	.....	271	83	158	.....	.....	.....	242
Hanover	223	99	.....	73	162	1	2	.....	240	69	181	.....	.....	.....	252
Lemon—															
Northern Precinct	622	494	.....	403	552	19	.....	.....	977	427	571	1	.....	.....	1007
Southern "	148	92	.....	68	130	5	.....	.....	203	79	122	.....	.....	.....	202
Liberty	207	159	.....	128	165	.....	.....	.....	294	135	156	.....	.....	.....	291
Madison—															
Northern Precinct	242	110	.....	107	204	1	.....	.....	313	91	194	.....	.....	.....	287
Southern "	172	69	.....	68	140	.....	1	.....	209	78	142	.....	.....	.....	224
Milford	350	139	.....	115	269	.....	.....	.....	483	103	293	.....	5	.....	403
Morgan	291	123	.....	89	275	2	5	.....	372	90	281	.....	3	.....	375
Oxford	343	463	.....	304	244	4	2	4	508	378	355	.....	.....	.....	737
Reiley	281	80	.....	69	259	.....	.....	.....	334	61	239	.....	.....	.....	362
Ross	287	137	.....	108	230	.....	.....	.....	342	106	214	.....	.....	.....	323
St. Clair	207	81	.....	59	171	.....	3	.....	234	51	164	.....	3	.....	218
Union	315	191	.....	132	261	3	2	.....	404	121	247	.....	.....	.....	370
Wayne	247	142	.....	107	212	.....	5	.....	327	114	201	.....	6	.....	331
Totals	6029	3351	9392	2581	4987	338	20	4	865	2737	5027	52	17	.....	7907

CARROLL COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		Will iam H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Augusta	79	174	252	149	80	...	...	...	230	143	72	4	...	219
Brown—															
Minerva Precinct	60	108	168	105	55	...	...	...	160	99	48	...	...	147
Malvern	143	190	336	171	122	...	10	...	304	173	111	...	2	276	
Centre	138	214	354	206	140	...	...	...	348	193	119	44	...	357
East	105	88	196	76	87	...	...	...	163	79	92	3	...	174
Fox	91	182	274	151	71	...	...	1	223	167	68	1	...	235
Harrison	86	144	231	147	82	...	...	...	231	156	80	1	...	277
Lee	109	115	227	113	104	...	...	...	223	111	104	7	3	225
London	103	111	215	101	111	...	...	...	213	109	111	...	...	220
Monroe	128	105	233	99	126	...	...	7	234	106	91	29	...	226
Orange	93	221	316	191	84	...	...	...	274	200	85	2	...	267
Perry	135	98	233	74	118	...	...	...	193	81	131	1	...	214
Rose	153	106	269	104	156	...	...	...	260	92	137	...	...	229
Union	94	73	167	76	89	...	...	...	165	70	76	3	...	150
Washington	37	129	167	125	40	...	...	...	165	125	31	3	...	139
Totals	1554	2060	3629	1888	1465	...	10	8	3386	1904	1354	98	5	3359	

SECRETARY OF STATE.

203

CHAMPAIGN COUNTY.

Townships and Wards.	President— 1876.			Governor—1877							Secretary of State—1878.					
	Samuel J. Tilden.	R. R. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David R. Paige.	Andrew Roy.	Jesse N. Robinson.	Total vote.		
Adams.....	295	121	329	101	160	...	1	3	270	97	138	1	1	237		
Concord.....	152	105	257	108	146	...	...	...	256	95	140	1	11	218
Goshen.....	172	468	644	441	135	...	22	...	623	415	159	...	59	634		
Harrison.....	128	130	258	109	105	...	...	...	217	93	101	...	...	193
Jackson.....	252	223	476	203	215	...	1	...	430	213	202	3	...	421		
Johnson—																
Millerstown Precinct..	111	11	122	13	96	...	...	...	109	15	94	...	...	110
St. Paris.....	298	164	467	158	278	...	3	6	446	180	244	34	7	465		
Mad River.....	388	102	493	85	339	...	...	2	429	96	297	17	15	425
Rush—																
Lewisburgh Precinct...	68	222	295	219	72	...	4	...	296	227	59	1	3	291		
Woodstock.....	36	171	207	167	40	...	...	1	208	158	42	...	...	202
Salem.....	179	276	456	243	151	...	...	...	392	242	140	...	2	403
Union.....	141	244	386	191	118	1	...	...	314	194	127	...	6	325
Urbana.....	101	248	345	227	95	...	...	...	322	220	82	...	...	302
Wayne.....	125	268	395	247	107	...	...	...	354	238	98	...	10	345
Urbana—																
1st Ward.....	142	331	474	322	155	...	...	...	482	314	146	...	...	465
2d ".....	137	309	449	315	152	...	...	...	476	347	151	...	5	504
3d ".....	231	135	367	230	192	...	...	...	324	138	208	...	...	348
Totals.....	2872	3526	6430	3279	2582	1	31	12	5938	3282	2425	57	119	5918		

CLARKE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Bethel—																
Donnelaville Precinct ..	100	127	228	101	85	5	1	193	106	74	2	3	185	123		
Medway ..	90	89	179	54	59	5	1	120	63	51	6	3	123	247		
North Carlisle ..	63	197	262	152	57	10	19	238	167	39	28	12	247	348		
German.....	327	110	441													
Lawrenceville Precinct				55	120	11	188	57	122	17	2	198	264			
Tremont ..				23	141	3	5	172	37	126	5	9	178	248		
Greene	63	291	355	197	39	5	244	213	35	5	10	264	348			
Harmony	114	297	415	201	74	26	2	305	188	67	22	50	348	448		
Madison	160	378	538	277	140	15	6	438	297	128	8	15	448	376		
Mad River	222	201	425	156	205	8		369	164	185	8	18	376	303		
Moorefield	117	195	312	137	86	2	1	226	168	102	3	4	277	342		
Pike	194	168	362	123	162		2	287	122	162		6	342	303		
Pleasant	66	302	372	211	71	14		299	228	48	2	25	303	448		
Springfield	307	478	792	273	193	53	28	547	384	184	30	65	658	890		
Springfield City—																
1st Ward	366	279	640	192	286	8	15	502	288	340	22	16	666	756		
2d ..	363	413	770	231	301	29	30	506	332	318	22	82	756	890		
3d ..	258	792	1062	476	211	55	31	776	624	225	17	86	956	890		
4th ..	508	447	957	246	369	4	25	42	688	369	445	37	37	890		
5th ..	224	372	600	246	181	27	16	417	329	186	10	57	584	756		
Totals	3556	5136	8720	3351	2785	4	290	210	6665	4142	2857	244	500	7799		

CLERMONT COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Batavia	423	394	821	338	384		3	58	750		214	244	145		606
Batavia Precinct											214	244	145		606
Amelia											162	112	96		341
Bantam											7	12	1		20
Franklin	456	366	822	268	406			8	683	300	385	13			698
Goshen	219	210	429	163	211			26	393	147	193	71			415
Jackson	195	188	383	137	173			4	317	121	177	69			367
Miami—															
Loveland Precinct	228	163	391	103	197			1	301	132	204	9			344
Milford	156	172	328	128	156	1			285	144	163	9	1		330
Newberry	52	106	158	101	53			4	158	102	64	5			171
Monroe	241	229	471												
Laurel Precinct.										132	177	43			352
Bantam										21	21	39			82
Ohio	326	391	718	181	205			53	439	353	312	53			719
Pierce	275	161	436	297	293			32	635	64	210	24			299
Stone Lick	251	175	430	125	228			25	378						
North Precinct				52	70		1		123	49	66	13			139
South				91	148		8	5	256	101	153	13			272
Tate	342	304	652	298	221			20	606						
Tate Precinct.										148	212	166			527
Bantam										27	31	35			94
Union	305	174	477	139	205			2	405	120	226	62			418
Wayne	297	151	448	122	265			9	399	127	249	65			442
Washington—															
Neville Precinct	110	122	232	89	106	1			196	82	111	2			195
Moscow	95	103	198	76	113			2	191	97	100	1			199
North	144	86	232	57	129			1	187	67	124	10			196
Williamsburg.	200	356	557	278	186			18	484	221	169	116			509
Totals	4315	3848	8187	3043	3850	2	12	268	7225	2932	3725	1029	1		7724

CLINTON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Adams	29	175	204	140	23	.....	.....	.....	166	153	22	.....	.....	.....	175
Chester	49	289	347	200	47	.....	29	.....	277	251	49	.....	9	.....	311
Clark	133	336	461	222	98	.....	9	12	350	222	136	.....	2	.....	425
Green—															
North Antioch Prec.	81	138	220	126	77	.....	.....	.....	203	130	80	.....	.....	.....	211
North Vienna "	174	235	424	193	159	.....	16	.....	369	224	179	.....	23	.....	430
Jefferson	103	207	325	137	74	.....	15	1	233	152	79	.....	12	.....	243
Liberty—															
Mt. Pleasant	26	80	107	60	25	.....	5	.....	90	74	38	.....	.....	.....	112
Port Williams	61	107	170	83	59	.....	3	.....	145	92	70	.....	.....	.....	163
Marion	209	217	422	155	159	.....	6	3	324	178	197	.....	1	.....	384
Richland	287	221	514	197	226	.....	.....	.....	497	223	247	.....	.....	4	475
Union	292	273	1170	733	376	.....	.....	.....	1026	793	203	.....	.....	9	1098
Vernon	145	221	373	194	111	.....	3	.....	313	219	120	.....	.....	.....	342
Washington	158	128	287	98	137	.....	2	2	237	108	152	.....	.....	1	269
Wayne	174	145	321	113	135	.....	.....	.....	249	112	137	.....	.....	11	261
Wilson	127	128	256	109	103	.....	.....	.....	212	112	128	.....	.....	.....	340
Totals	2048	3500	5631	2766	1709	....	88	18	4621	3103	1927	.....	1	71	5131

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Polite.	Andrew Roy.	John N. Robinson.		
Butler	112	278	390	220	95	7	323	229	79	8	317
Center	307	524	834	451	261	13	730	462	245	26	737
Elk Run	171	175	346	154	143	19	317	166	134	17	318
Fairfield	251	343	594	269	231	...	1	102	606	283	188	99	550
Franklin	159	57	218	46	130	21	198	39	120	30	1-0
Hanover	224	334	561	278	205	5	490	287	197	9	494
Knox	275	191	471	136	254	392	149	219	7	375
Liverpool	293	452	744	362	212	...	1	49	629	409	178	105	699
Madison	117	145	264	119	111	4	235	136	115	8	260
Middletown	104	255	352	185	116	302	181	74	27	282
Perry	2-5	763	1039
North Ward Precinct	291	58	...	4	32	418	411
South Ward Precinct	294	143	...	6	51	492	276	92	88	12	...	465
Salem
Leontonia Precinct	350	274	694	218	275	141	636	212	246	163	619
Franklin Square Prec	100	159	259	114	95	14	214	111	61	18	190
St. Clair	129	123	254	96	118	1	215	90	69	4	183
Unity	347	273	623	233	292	25	553	211	261	28	521
Washington	200	301	571	233	157	59	450	248	119	153	542
Wayne	115	66	183	50	107	2	139	18	103	171
West	184	249	446	183	166	...	1	...	372	163	125	33	322
Yellow Creek	307	445	771	323	222	549	381	240	3	630
Totals	4090	5117	9724	4255	3441	...	12	543	8260	4395	2976	868	16	...	8277

Townships and Wards.	President—1876.		Governor—1877.						Secretary of State—1878.					
	Samuel J. Tilden.	R. B. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	Total vote.
Adams	136	99	235	96	117	213	101	135	2	...	238
Bedford	112	129	241	114	104	219	122	94	216
Bethlehem	115	81	196	65	98	163	71	94	165
Clark	115	99	214	83	99	182	96	105	201
Crawford	246	44	290	41	196	237	48	240	288
Franklin	133	84	217	76	111	187	87	104	191
Jackson	204	225	429	198	194	304	180	162	14	...	356
Jefferson	174	81	255	78	153	241	86	171	257
Keene	74	128	202	124	70	194	129	71	200
Lafayette	140	100	240	87	107	194	86	116	202
Linton	209	109	378	141	184	326	140	198	338
Mill Creek	91	48	139	43	80	126	45	83	128
Monroe	115	88	203	80	104	184	80	104	184
New Castle	144	96	240	70	125	196	92	119	...	5	217
Oxford	137	66	253	86	117	203	92	107	4	...	203
Perry	143	61	204	57	135	182	59	142	201
Pike	97	89	190	53	84	168	87	86	175
Tiverton	145	37	202	44	135	...	3	...	182	32	110	...	15	177
Tuscarawas	304	301	895	321	450	819	376	413	82	...	871
Virginia	97	148	245	121	74	195	114	68	6	...	188
Washington	69	105	174	95	56	152	100	60	160
White Eyes	112	100	212	98	93	192	115	93	208
Totals	3312	3518	5834	2228	2886	...	3	...	5149	2338	2877	108	90	5344

CRAWFORD COUNTY.

Townships and Wards.	President—1876.			Governor—1877.							Secretary of State—1878.				
	Samuel J. Tilden.	R. B. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	Total vote.	
Anburn	135	122	258	90	101				191	102	94	15	7	218	
Bucyrus	663	375	1069	279	588		15		889	370	538	14	17	1013	
Chaffield	243	17	260	10	201				211	14	224	1		246	
Cranberry	339	71	412	35	211		4	2	272	49	293	20	17	326	
Dallas	40	47	87	32	35		5		78	45	36	1	4	86	
Holmes	228	135	365	97	173		2		272	115	171			294	
Jackson	461	255	719	132	360		4	59	555	221	354	46	2	625	
Jefferson	185	62	249	45	149		3		197	41	139	12	1	194	
Liberty	213	209	425	156	184		21		361	150	196	2	38	387	
Lykins	173	79	252	67	129		2		198	69	150	4		223	
Polk	880	503	1391	354	731		10	25	1124	435	675	55	8	1173	
Sandusky	91	65	156	55	72		2		135	54	81	3	8	146	
Texas	74	79	155	44	59		16		120	63	57	13	7	140	
Tod	168	108	275	62	129		7		199	79	132	3	4	224	
Vernon	177	53	234	36	154		7		190	34	158			191	
Whetstone	275	132	410	81	196				278	84	177	3		264	
Totals	4365	2312	6715	1581	3498		88	89	5270	1924	3489	258	113	5798	

CUYAHOGA COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Bedford.....	132	239	379	169	133	...	9	1	312	147	96	11	59	...	315
Brecksville.....	70	157	232	121	61	...	3	...	185	133	50	20	10	...	214
Brooklyn—															
Village Precinct.....	76	198	275	136	60	11	...	1	260	156	57	18	3	...	238
South.....	133	123	257	89	98	1	...	...	187	93	67	23	...	...	183
West Cleveland Prec't.....	100	133	234	85	59	4	...	10	161	88	31	51	2	...	171
Chagrin Falls.....	64	330	395	227	68	1	15	12	332	239	54	35	24	...	353
Cleveland—															
1st Ward.....	757	1005	1792	...	...	...	...	...	...	721	418	277	15	...	1424
" A.....	...	...	...	145	111	4	...	13	276	...	...	...	...	...	...
" B.....	...	...	...	130	160	18	...	52	361	...	...	...	...	...	...
" C.....	...	...	...	156	135	...	1	33	347	...	...	...	...	...	...
" D.....	...	...	...	164	69	2	...	15	253	...	...	...	...	...	...
2d Ward.....	502	885	1402	...	...	...	...	...	...	723	325	105	10	...	1165
" A.....	...	...	...	158	134	2	...	3	297	...	...	...	...	...	...
" B.....	...	...	...	263	148	7	2	8	431	...	...	...	...	...	...
" C.....	...	...	...	187	129	4	...	4	327	...	...	...	...	...	...
3d Ward.....	388	346	732	...	...	...	...	...	...	264	245	71	3	...	583
" A.....	...	...	...	163	172	6	...	20	364	...	...	...	...	...	...
" B.....	...	...	...	57	76	1	...	6	140	...	...	...	...	...	...
4th Ward.....	840	1217	2092	...	...	...	...	...	...	995	428	310	18	...	1763
" A.....	...	...	...	219	126	1	1	10	370	...	...	...	...	...	...
" B.....	...	...	...	274	51	...	5	4	337	...	...	...	...	...	...
" C.....	...	...	...	147	132	3	...	16	300	...	...	...	...	...	...
" D.....	...	...	...	113	163	9	...	53	341	...	...	...	...	...	...
" E.....	...	...	...	100	142	5	...	27	284	...	...	...	...	...	...
5th Ward.....	1270	724	2015	...	...	...	...	...	...	529	763	323	10	...	1643
" A.....	...	...	...	92	170	...	...	5	267	...	...	...	...	...	...
" B.....	...	...	...	65	151	16	...	14	246	...	...	...	...	...	...
" C.....	...	...	...	85	241	8	...	24	370	...	...	...	...	...	...
" D.....	...	...	...	135	330	8	...	34	507	...	...	...	...	...	...
" E.....	...	...	...	60	135	5	...	4	204	...	...	...	...	...	...
6th Ward.....	1123	2041	3216	...	...	...	...	...	...	1575	616	485	37	...	2695
" A.....	...	...	...	110	160	116	...	37	424	...	...	...	...	...	...
" B.....	...	...	...	127	116	21	...	18	282	...	...	...	...	...	...
" C.....	...	...	...	267	99	102	3	4	477	...	...	...	...	...	...
" D.....	...	...	...	353	170	13	1	35	579	...	...	...	...	...	...
" E.....	...	...	...	158	79	23	4	21	286	...	...	...	...	...	...
" F.....	...	...	...	203	91	2	2	21	322	...	...	...	...	...	...
" G.....	...	...	...	225	58	1	1	3	291	...	...	...	...	...	...

CUYAHOGA COUNTY—Continued.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Inghop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Faige.	Andrew Roy.	Jere N. Robinson.		
Cleveland—Cont'd—															
7th Ward	731	714	1459								481	371	343	8	1208
" A				229	237	50		16	559						
" B				142	199	23		27	392						
" C				42	104	20		10	176						
8th Ward	916	336	1153							117	507	215	6		845
" A				81	295	6		13	375						
" B				55	422	2		4	483						
9th Ward	585	717	1318							493	355	144	55		1047
" A				209	90	1		2	304						
" B				214	188	25		26	459						
" C				65	204	5		14	288						
10th Ward	637	910	1560							575	360	310	31		1253
" A				217	217	9	2	26	475						
" B				166	137	7	2	38	349						
" C				141	175	3		32	352						
11th Ward	1105	906	2029							489	587	488	16		1582
" A				112	133	17		49	312						
" B				95	197	23		43	364						
" C				110	136	31		20	293						
" D				90	196	19		46	382						
" E				59	43	22		37	162						
12th Ward	598	674	1208							271	195	532	11		1009
" A				176	205	25		49	518						
" B				41	32	68		15	156						
" C				39	49	137		8	233						
13th Ward	464	652	1151							406	190	409	3		1011
" A				243	113	91		48	497						
" B				133	177	44		63	418						
14th Ward	439	472	940							321	102	452			863
" A				79	52	10		40	184						
" B				138	104	313		24	579						
15th Ward	350	452	829							323	171	225	9		727
" A				148	193	3	1	34	381						
" B				137	97	13		29	279						
16th Ward	179	464	667							395	76	127	23		618
" A				150	60	52	2	34	303						
" B				184	47			5	239						
17th Ward	183	460	647							382	90	55	10		540
" A				224	101	14	1	14	353						
" B				114	48	1		1	166						
18th Ward	611	897	1524							612	483	322	41		1466
" A				124	270	2		113	511						
" B				123	98	5		51	278						
" C				241	153	1	2	40	425						
Dover	183	194	337						266	143	146	7	32		329
East Cleveland	140	310	457				1	21	244	124	51	15	50		240
Glencille Prec't.	54	91	145					2	118	86	28	16	1		131
Collinwood "				106	40	4		4	154	107	38	5	6		156
Euclid	213	315	528					12	221	161	150	35	35		381
Independence	211	158	378				2	20	257	96	88	47	9		240
Mayfield	84	135	220						176	96	50	8	2		156
Middleburg	315	468	790				6	9	581	286	241	62	71		659
Newburgh	107	123	230				3	7	165	84	53	22			159
Olmstead	159	239	398				10		295	146	82	43	18		291
Orange	58	124	182					4	142	99	30	17	3		141
Parma	191	129	322				4	1	239	111	118	5			234
Rockport—															
1st Precinct	60	122	183				1	3	143	83	48	3	13		147
2d	164	180	347				1	1	265	118	112	42	18		291
Royalton	46	196	242						216	178	36	11	1		227
Solon	94	121	216						191	101	76	6	8		191
Strongsville	45	170	217				5		172	144	30	14			188
Warrensville	140	171	315						244	117	88	8	20		234
Totals	14425	18198	35055	11634	10644	1519	83	1567	25395	12849	8111	5743	685		27400

DARKE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Adams—															
West Precinct	163	169	.....	142	141	.....	.....	.....	284	163	147	2	.....	313
East "	109	97	.....	58	74	.....	2	11	164	62	71	14	.....	147
Allen	139	91	.....	70	120	.....	.....	.....	192	72	122	1	.....	196
Brown	278	121	.....	106	222	.....	13	3	377	87	272	17	.....	379
Butler	278	132	.....	100	264	.....	.....	.....	375	109	220	1	8	340
Franklin	149	169	.....	136	116	.....	1	9	302	129	122	11	3	266
Greenville	849	577	.....	427	735	.....	2	90	1350	571	787	48	.....	1412
German	174	217	.....	156	137	.....	4	24	300	210	144	14	2	371
Harrison	291	200	.....	140	239	.....	3	10	393	127	222	37	6	393
Jackson—															
Western Precinct	206	160	.....	90	186	.....	.....	7	292	121	189	6	.....	317
Eastern "	105	85	.....	42	91	.....	.....	2	140	65	125	.....	.....	191
Mississinewa	165	107	.....	71	134	.....	.....	9	230	83	129	19	.....	231
Monroe	134	122	.....	94	109	.....	.....	1	208	123	135	.....	.....	258
Neave	157	99	.....	88	141	.....	1	2	236	82	149	2	.....	234
Patterson	101	142	.....	84	70	.....	.....	9	165	112	101	.....	.....	213
Richland	180	78	.....	58	163	.....	.....	9	245	78	162	3	.....	246
Twin	347	256	.....	195	313	.....	8	12	579	201	345	31	.....	567
Van Buren	164	127	.....	118	137	.....	3	2	308	119	139	9	.....	271
Wabash	90	130	.....	96	76	.....	.....	5	181	74	75	25	.....	175
Washington	135	200	.....	121	101	.....	2	2	298	159	129	2	1	290
Wayne	353	194	.....	156	274	.....	.....	3	438	171	328	12	.....	512
York	110	84	.....	64	102	.....	.....	1	170	62	106	.....	.....	171
Totals	4667	3577	8239	2612	3947	39	211	7233	2980	4202	254	20	7493		

DEFIANCE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Adams	240	38	318	29	195	.....	.....	7	231	23	176	10	.....	210
Defiance	751	372	1128	122	541	.....	.....	261	994	279	617	159	.....	1055
Delaware	228	68	293	27	168	.....	.....	34	230	96	146	14	.....	189
Farmer	131	166	301	137	103	.....	.....	10	250	145	103	4	.....	254
Hicksville	267	219	488	151	189	.....	.....	83	427	78	105	4	.....	188
Highland	152	111	262	90	105	.....	.....	.....	195	135	211	53	.....	399
Mark	124	84	204	46	83	.....	.....	6	135	53	92	6	.....	147
Millford	180	151	332	113	135	.....	.....	6	254	103	137	3	.....	245
Noble	136	67	203	62	118	.....	.....	6	186	64	103	4	.....	171
Richland—														
North Precinct	116	62	180	55	103	.....	.....	10	168	43	95	4	.....	143
South "	107	19	126	7	65	.....	.....	2	76	14	79	.....	.....	93
Tiffin	211	103	315	69	157	.....	.....	15	242	65	156	9	.....	230
Washington	208	60	268	49	133	.....	.....	15	199	49	129	15	.....	194
Totals	2888	1320	4122	1017	2095	.....	.....	455	3587	1077	2149	285	.....	3517

DELAWARE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Berkshire	130	274	391	191	133	....	13	6	344	234	139	4	18	394
Berlin	136	173	318	155	126	....	10	....	292	162	117	....	13	292
Brown	92	143	247	105	92	....	24	....	222	123	90	3	24	240
Concord	137	103	242	62	120	....	5	....	188	84	141	....	5	231
Delaware Township	123	149	277	90	108	....	19	....	218	110	102	3	25	242
Delaware City—															
First Ward	133	336	480	191	70	....	16	....	283	231	57	6	22	321
Second "	271	450	765	151	74	....	24	....	249	153	81	6	25	269
Third "	293	65	358	96	104	....	33	....	234	109	99	16	42	267
Fourth " .....	....	....	....	57	137	....	16	....	211	77	150	6	14	248
Fifth " .....	....	....	....	112	257	....	11	....	383	156	243	16	7	431
Genoa	146	94	241	69	108	....	8	....	186	79	112	....	10	201
Harlem	156	93	242	66	134	....	20	....	220	90	144	....	17	251
Kingston	37	101	139	90	35	....	1	....	126	105	38	1	4	149
Liberty	153	160	326	107	122	....	12	9	250	117	170	2	19	308
Marlboro	52	55	110	45	43	....	1	....	91	55	48	1	2	109
Orange	101	153	263	111	84	....	10	....	206	132	100	3	22	257
Oxford	108	178	292	147	93	....	1	4	246	160	103	....	10	277
Porter	56	135	192	80	34	....	7	1	123	103	47	9	6	170
Radnor	62	218	285	184	62	....	10	....	257	208	59	....	6	273
Scotot	242	129	402	94	224	....	39	....	358	122	212	2	43	360
Thompson	137	73	211	48	122	....	1	....	171	61	108	....	4	173
Trenton	138	77	219	58	120	....	4	....	182	67	132	....	11	210
Troy	97	105	204	74	99	....	6	....	179	94	93	....	....	188
Totals	2809	3237	6204	2383	2501	....	291	20	5219	2832	2595	78	352	5880

ERIE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Berlin	151	316	501	219	120	.....	3	81	436	235	105	82	2	424
Florence	127	194	325	149	122	.....	11	.....	282	156	111	36	.....	302
Groton	131	99	230	62	105	.....	2	.....	169	59	96	9	.....	167
Huron	167	217	402	154	137	.....	8	11	312	142	136	76	5	359
Kelley's Island	89	99	183	105	81	.....	4	.....	189	86	59	33	.....	178
Margaretta	143	274	422	221	123	.....	4	.....	348	197	131	11	2	341
Milan	166	359	576	264	121	.....	3	133	521	282	127	130	2	547
Oxford	141	146	289	94	106	.....	2	5	207	120	103	29	.....	254
Perkins	172	169	343	141	158	.....	1	4	305	122	156	5	.....	284
Vermillion	245	170	426	125	195	.....	1	19	340	102	215	29	.....	349
Sandusky City—															
First Ward	294	285	585	217	201	.....	39	.....	462	272	227	30	.....	528
Second "	259	303	568	245	236	.....	1	15	501	285	252	7	.....	547
Third "	316	247	564	216	241	.....	8	.....	465	246	246	18	.....	510
Fourth "	328	193	523	154	254	.....	20	.....	435	204	288	14	.....	506
Fifth "	383	87	470	58	286	.....	25	.....	371	86	306	15	.....	407
Totals	3112	3158	6412	2424	2486	.....	23	377	5333	2600	2558	524	11	5702

FAIRFIELD COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen J. Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Amanda.....	235	179	415	169	222	.....	.....	.....	391	173	244	.....	.....	418
Berne.....	429	134	563	115	388	.....	.....	.....	505	138	396	.....	.....	459
Bloom.....	322	149	473	126	288	.....	.....	.....	414	137	330	.....	.....	524
Clear Creek.....	339	140	470	123	292	.....	.....	.....	422	.....	.....	.....	.....	.....
Carroll Precinct.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	103	317	.....	.....	421
Greenfield ".....	.....	.....	.....	.....	.....	.....	.....	.....	.....	96	97	.....	.....	193
Greenfield ".....	230	216	447	202	197	.....	.....	.....	401	130	116	.....	.....	346
Hocking.....	243	174	418	156	213	.....	.....	.....	370	129	231	.....	.....	361
Liberty.....	497	217	714	185	451	.....	3	.....	629	193	465	.....	.....	659
Madison.....	196	92	288	53	175	.....	.....	.....	248	83	163	.....	.....	245
Pleasant.....	328	1-6	512	162	2-6	.....	.....	.....	451	123	308	.....	.....	489
Richland.....	217	141	363	134	199	.....	5	.....	344	147	2-2	.....	.....	350
Rush Creek.....	1-7	2-5	394	165	168	.....	13	.....	349	170	181	.....	.....	351
Violet.....	339	100	440	80	323	.....	.....	.....	405	85	321	.....	.....	407
Walnut.....	296	220	520	164	261	.....	37	.....	461	191	256	.....	7	454
Lancaster—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
First Ward.....	207	205	413	176	198	1	.....	.....	375	197	199	.....	.....	397
Second ".....	101	170	276	148	112	5	.....	.....	265	164	112	.....	.....	276
Third ".....	202	104	308	98	175	6	1	.....	279	101	200	.....	1	303
Fourth ".....	138	66	205	65	121	.....	1	.....	167	75	116	.....	1	192
Fifth ".....	97	70	168	72	82	.....	.....	.....	156	75	101	.....	.....	181
Totals.....	4297	2770	7367	2417	4154	12	60	.....	6652	2557	4365	.....	9	6947

FAYETTE COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Concord	80	108	189	84	63	.....	.....	.....	148	91	85	.....	2	.....	185
Greene	22	99	1-7	83	91	.....	.....	.....	173	110	29	.....	.....	.....	300
Jasper	215	2-5	452	157	165	.....	.....	.....	322	214	222	.....	.....	.....	439
Jefferson	230	347	609	285	232	.....	.....	.....	531	325	235	.....	15	.....	576
Madison	156	158	322	125	147	.....	.....	.....	272	127	163	.....	3	.....	328
Marion	124	94	218	71	111	.....	.....	.....	181	79	97	.....	.....	.....	176
Paint "	136	274	417	198	143	.....	.....	.....	343	250	181	.....	.....	.....	444
Perry	76	223	300	184	65	.....	.....	.....	250	210	89	.....	.....	.....	303
Union—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Precinct	241	295	552	267	241	.....	.....	2	511	313	262	.....	9	.....	584
East "	306	418	748	360	322	1	.....	1	684	428	361	.....	26	.....	821
Wayne	201	185	388	168	146	.....	.....	.....	316	183	152	.....	4	.....	342
Totals	1674	2437	4322	1992	1726	1	.....	6	3731	2330	1936	.....	63	.....	4298

* Scattering, 11 votes.

FRANKLIN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	H. A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Taige.	Andrew Roy.	Jerrold N. Robinson.		
Blendon	162	343	.....	215	158	.....	61	9	444	250	143	8	49	.....	461
Brown	87	113	.....	89	67	.....	.....	1	156	106	80	7	.....	.....	193
Clinton	227	135	.....	83	178	.....	.....	.....	262	117	215	4	.....	.....	336
Franklin	294	218	.....	148	259	.....	2	10	412	175	392	26	.....	.....	504
Hamilton	179	156	.....	105	148	.....	.....	.....	254	109	181	7	.....	.....	297
Jackson	308	131	.....	95	273	.....	18	9	387	108	293	6	4	.....	411
Jefferson	231	71	.....	51	182	.....	.....	2	250	52	192	4	.....	.....	250
Madison—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Groveport Precinct	329	158	.....	140	244	.....	1	1	389	155	258	14	3	.....	430
Winchester	256	145	.....	124	243	.....	4	2	365	128	229	13	1	.....	371
Marion	297	111	.....	68	212	.....	.....	.....	281	91	264	16	.....	.....	370
Mifflin	241	157	.....	102	188	.....	3	11	304	134	187	14	.....	.....	338
Norwich	189	183	.....	153	170	.....	11	11	347	168	168	5	10	.....	352
Perry	150	188	.....	117	94	.....	12	3	247	170	102	6	.....	.....	279
Plain	184	178	.....	104	186	.....	10	.....	300	118	192	6	.....	.....	307
Pleasant	270	197	.....	155	207	.....	1	5	367	160	235	6	.....	.....	401
Prairie	224	172	.....	113	172	.....	10	10	298	151	196	16	.....	.....	364
Sharon	105	149	.....	113	83	.....	1	1	199	134	98	3	2	.....	237
Worthington Precinct	25	68	.....	58	35	.....	3	1	97	62	23	.....	.....	.....	88
Troy	216	221	.....	128	181	.....	7	7	326	154	196	8	21	.....	380
Washington	192	88	.....	52	132	.....	32	3	220	81	171	2	15	.....	275
Columbus—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1st Ward	269	425	.....	167	164	.....	2	43	382	235	198	48	4	.....	492
" A .....	.....	.....	.....	79	107	.....	.....	33	219	135	118	18	1	.....	272
2d Ward	166	542	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
" A .....	.....	.....	.....	179	94	.....	2	7	291	264	86	10	1	.....	363
" B .....	.....	.....	.....	225	75	.....	3	37	342	268	82	22	.....	.....	379
3d Ward	194	417	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
" A .....	.....	.....	.....	170	151	.....	4	14	341	228	151	25	2	.....	410
" B .....	.....	.....	.....	107	70	.....	2	7	194	148	66	4	.....	.....	220
4th Ward	578	401	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
" A .....	.....	.....	.....	101	214	.....	9	1	326	170	213	26	5	.....	413
" B .....	.....	.....	.....	128	137	.....	6	8	279	148	190	15	.....	.....	352
" C .....	.....	.....	.....	66	130	14	4	4	218	99	127	7	.....	.....	234
5th Ward	635	159	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
" A .....	.....	.....	.....	49	253	.....	15	318	84	252	30	1	.....	.....	380
" B .....	.....	.....	.....	43	200	1	4	251	99	225	13	.....	.....	.....	338
6th Ward	935	101	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
" A .....	.....	.....	.....	21	246	.....	9	277	30	271	28	.....	.....	.....	329
" B .....	.....	.....	.....	28	227	.....	1	16	273	67	244	40	.....	.....	350
" C .....	.....	.....	.....	20	214	.....	.....	256	32	266	20	.....	.....	.....	320
7th Ward	576	458	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
" A .....	.....	.....	.....	72	155	1	1	19	259	104	159	40	.....	.....	300
" B .....	.....	.....	.....	99	216	.....	1	98	414	143	245	45	.....	.....	443
" C .....	.....	.....	.....	100	134	.....	1	15	250	121	129	37	1	.....	290
8th Ward	580	864	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
" A .....	.....	.....	.....	224	109	.....	5	8	346	265	120	23	4	.....	414
" B .....	.....	.....	.....	73	138	.....	5	10	228	94	144	29	.....	.....	267
" C .....	.....	.....	.....	120	116	.....	7	251	133	123	17	.....	.....	.....	271
" D .....	.....	.....	.....	70	94	.....	4	14	185	98	86	19	4	.....	211
" E .....	.....	.....	.....	140	82	.....	2	18	245	222	106	20	.....	.....	352
9th Ward	549	386	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
" A .....	.....	.....	.....	124	155	.....	9	27	318	156	142	34	8	.....	344
" B .....	.....	.....	.....	31	137	.....	1	27	197	52	161	43	1	.....	258
" C .....	.....	.....	.....	49	164	.....	18	231	58	156	45	1	.....	.....	260
10th Ward	434	541	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
" A .....	.....	.....	.....	99	191	.....	1	51	342	135	190	80	.....	.....	408
" B .....	.....	.....	.....	81	117	.....	2	25	289	104	78	167	1	.....	351
" C .....	.....	.....	.....	93	68	.....	3	15	179	135	61	23	1	.....	220
11th Ward	282	126	.....	57	224	.....	2	10	298	94	264	43	1	.....	404
Totals	9383	7557	11037	5028	7804	16	251	694	13884	6555	8371	1142	143	.....	16288

FULTON COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total ote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David E. Paige.	Andrew Roy.	Jere. N. Robinson.		
Amber.....	101	180	281	107	90	.....	.....	10	206	149	86	26	.....	261
Chesterfield.....	81	163	245	97	47	.....	.....	9	176	108	21	87	4	230
Clinton.....	216	570	821	403	173	.....	.....	105	685	487	192	113	.....	805
Dover.....	48	194	251	97	37	.....	.....	75	211	145	29	72	.....	249
Franklin.....	106	121	227	81	74	.....	.....	6	162	94	90	12	.....	196
Fulton.....	111	234	350	148	82	.....	.....	11	241	150	98	55	.....	306
German.....	234	128	366	42	142	.....	.....	48	233	90	249	29	6	376
Gorham.....	237	211	474	121	148	.....	.....	28	299	145	168	43	.....	357
Pike.....	41	181	225	110	25	.....	.....	20	153	141	29	43	.....	214
Royalton.....	78	177	260	101	72	.....	.....	6	13	193	129	71	34	235
Swan Creek.....	111	198	309	106	78	.....	.....	.....	184	131	74	29	.....	234
York.....	210	340	558	187	188	.....	.....	3	42	421	192	39	7	453
Totals.....	1597	2697	4367	1600	1156	.....	11	387	3164	2013	1299	582	17	3936

GALLIA COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.		
Addison	182	129	311	107	163	.....	.....	.....	269	108	176	.....	.....	.....	244
Cheshire	110	301	414	251	98	.....	.....	.....	350	171	73	.....	.....	.....	246
Cheshire Precinct.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	143	57	1	.....	.....	201
Clay	158	153	312	99	119	.....	.....	.....	218	115	129	.....	.....	.....	244
Gallipolis	52	93	145	90	48	.....	.....	.....	138	103	52	.....	.....	.....	135
Green	107	198	305	180	94	.....	.....	.....	275	208	111	.....	.....	.....	319
Greenfield	119	139	259	94	78	.....	.....	.....	174	104	91	.....	.....	.....	195
Gnyan	206	174	380	104	151	.....	.....	.....	256	78	171	.....	.....	.....	251
Harrison	106	154	260	131	89	.....	.....	.....	221	112	102	.....	.....	.....	214
Huntington.....	119	222	345	179	110	.....	11	.....	300	193	126	.....	10	.....	331
Morgan	148	132	281	119	131	.....	.....	.....	253	126	151	1	.....	.....	277
Ohio	176	97	272	48	128	.....	.....	.....	177	46	146	.....	.....	.....	192
Perry	74	166	262	145	87	.....	2	.....	234	162	88	.....	.....	.....	251
Raccoon	90	282	373	227	95	.....	4	.....	327	261	102	.....	.....	.....	365
Springfield	151	219	372	193	141	.....	1	.....	337	212	133	.....	.....	.....	347
Walnut	179	178	357	137	141	.....	.....	.....	278	144	163	1	.....	.....	308
Gallipolis—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1st Ward	143	79	223	67	140	4	.....	.....	212	63	162	1	.....	.....	229
2d "	86	150	236	139	73	2	.....	.....	215	143	105	.....	.....	.....	251
3d "	66	169	235	148	74	.....	.....	.....	227	179	77	.....	.....	.....	257
4th "	30	147	177	128	38	1	.....	.....	168	130	36	.....	.....	.....	167
Totals	2302	3292	5519	2586	1997	7	18	.....	4628	2801	2251	4	10	.....	5384

SECRETARY OF STATE.

213

GEAUGA COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Anburn.....	55	159	217	113	48	.....	.....	.....	164	92	31	19	.....	142
Bainbridge.....	54	145	199	103	48	.....	.....	.....	161	103	36	9	.....	149
Burton.....	77	227	305	181	65	.....	.....	.....	250	185	43	12	.....	240
Chardon.....	119	333	452	264	95	.....	.....	1	362	278	71	48	.....	396
Chester.....	20	171	191	130	15	.....	.....	2	148	120	11	3	3	137
Claridon.....	34	188	225	150	21	.....	1	1	176	144	10	8	.....	162
Hampden.....	29	174	203	134	23	.....	1	.....	158	133	20	1	2	156
Huntsburg.....	23	187	212	138	24	.....	.....	.....	162	149	12	6	.....	168
Middlefield.....	45	174	219	127	38	.....	.....	.....	167	109	32	11	18	170
Montville.....	53	152	207	120	43	.....	.....	2	166	126	33	3	.....	162
Munson.....	45	163	208	105	53	.....	.....	2	161	130	37	9	.....	177
Newberry.....	33	209	242	140	30	.....	.....	1	172	140	18	27	13	199
Parkman.....	73	165	243	128	73	.....	.....	5	206	124	46	6	.....	178
Russell.....	16	159	175	120	20	.....	1	1	141	117	15	3	.....	136
Thompson.....	92	192	285	142	78	.....	.....	.....	221	123	48	21	.....	193
Troy.....	40	206	247	156	40	.....	1	.....	199	162	29	4	.....	197
Totals.....	808	3004	3830	2256	714	.....	6	13	3014	2235	492	190	36	2562

GREENE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Bath—																
Fairfield Precinct.....	185	181	368	140	160	3	2	...	306	137	121	4	3	...	266	
Osborn 	151	126	278	80	137	2	...	...	219	92	98	15	...	...	205	
Beaver Creek.....	271	338	609	20	176	11	2	...	410	244	127	...	1	...	429	
Cesar's Creek.....	128	142	271	83	97	...	9	...	190	95	90	...	12	...	202	
Cedarville.....	110	434	557	262	94	5	37	...	399	300	91	...	12	...	409	
New Jasper.....	67	172	242	126	34	...	13	...	174	136	39	...	3	...	179	
Jefferson.....	171	151	325	101	174	2	10	...	287	124	197	...	16	...	338	
Miami—																
Eastern Precinct.....	60	91	153	57	54	13	...	...	125	69	44	6	...	...	119	
Western 	135	328	465	216	105	12	11	...	350	228	104	5	4	...	344	
Ross.....	142	156	299	119	132	...	...	...	255	110	101	...	3	...	214	
Silver Creek.....	133	349	487	225	111	...	17	...	355	234	105	...	10	...	349	
Spring Valley.....	162	211	381	158	157	...	11	...	327	182	142	...	4	...	327	
Sugar Creek.....	185	228	413	207	177	...	...	...	397	214	177	...	...	...	391	
Xenia.....	143	517	666	351	101	19	12	...	483	358	111	...	7	...	479	
Xenia—																
1st Ward.....	67	180	254	135	54	15	11	...	217	139	63	2	3	...	212	
2d 	67	169	242	117	45	19	9	...	191	149	49	2	7	...	208	
3d 	105	256	364	174	81	12	8	...	276	207	76	1	3	...	229	
4th 	28	369	417	232	18	54	5	...	311	316	18	1	...	...	335	
5th 	184	70	257	28	96	46	5	...	178	46	133	1	1	...	184	
Totals.....	2494	4488	7049	3031	2003	216	162	...	5440	3380	1826	37	89	...	5479	

GUERNSEY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Adams.....	51	110	161	109	51				160	101	53				155	
Cambridge—																
1st Precinct.....	183	236	420	200	188	1	1		392	207	191	7			400	
2d ".....	105	188	297	183	113				296	190	101	2			293	
3d ".....	101	160	262	139	120		2	1	261	168	99	5			274	
Center.....	131	100	242	73	126			11	210	71	109	40			222	
Jackson.....	101	105	206	101	85		1		187	92	94	2			190	
Jefferson.....	91	117	209	102	79				181	112	83				196	
Knox.....	109	68	177	62	101				163	56	106				163	
Liberty.....	110	172	284	163	99				263	167	103	1			271	
Londonderry.....	89	123	213	150	81		2		233	172	89	2			264	
Madison.....	92	152	245	149	90		1		240	148	90	9			247	
Millwood.....	168	228	396	196	169				374	183	183	7	11		349	
Monroe.....	114	108	222	107	111		8		218	111	109				220	
Oxford.....	180	183	364	151	183				334	182	144	10			340	
Richland.....	102	193	311	164	98				209	176	106	10			294	
Spencer.....	125	227	353	158	112		47		378	203	111	4	14		335	
Valley.....	119	89	208	87	101				188	80	109	3			191	
Washington.....	63	94	158	75	64		1		140	92	62				154	
Westland.....	67	137	204	116	63				179	110	59	3			172	
Wheeling.....	123	119	242	83	98				182	91	111				203	
Wills.....	229	137	368	133	209		1		314	119	208	13			342	
Totals.....	2460	3106	5604	2701	2341	1	64	12	5134	2843	3220	118	25		5317	

HAMILTON COUNTY.

Townships and Wards.	Governor—1877.					Total vote.
	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	
Cincinnati—						
1st Ward—A	65	163	34	.....	.....	266
" B	103	143	42	.....	.....	289
" C	127	81	11	.....	.....	224
" D	155	76	52	.....	.....	283
" E	73	109	11	.....	.....	197
" F	138	86	4	.....	.....	229
" G	106	130	40	.....	.....	282
" H	88	100	28	.....	.....	216
2d Ward—A	88	101	84	.....	.....	273
" B	236	96	63	.....	.....	409
" C	260	82	29	.....	.....	376
" D	123	31	54	.....	.....	210
" E	52	26	13	.....	.....	92
" F	8	104	63	.....	.....	175
3d Ward—A	111	107	43	1	.....	266
" B	36	360	93	.....	1	486
" C	16	62	17	.....	.....	95
" D	22	224	46	.....	.....	293
" E	42	148	25	.....	.....	217
" F	152	116	68	.....	.....	337
" G	156	27	103	.....	.....	286
4th Ward—A	73	130	47	.....	.....	250
" B	59	135	52	.....	.....	247
" C	48	150	78	.....	.....	276
" D	26	152	32	.....	.....	210
" E	65	106	54	.....	.....	225
" F	147	150	130	.....	.....	427
" G	102	117	34	.....	.....	251

HAMILTON COUNTY—Continued.

Townships and Wards.	Governor—1877.					Total vote.
	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	
Cincinnati—Continued—						
5th Ward—A	77	88	15			185
" B	101	126	15			244
" C	31	96	32			161
" D	88	121	47			258
" E	89	202	48			402
6th Ward—A	161	255	22			443
" B	35	51	4			90
" C	84	242	30			359
" D	58	122	47			234
" E	96	77	32			205
" F	76	60	25			164
7th Ward—A	57	65	93			215
" B	110	59	140			316
" C	86	88	103			284
" D	80	143	41			267
" E	57	166	90			316
" F	73	25	16			149
8th Ward—A	77	126	50			213
" B	107	104	57			268
" C	46	184	32			262
" D	63	273	75			412
" E	22	71	51			144
9th Ward—A	85	74	74			240
" B	58	49	36			143
" C	119	151	48			315
" D	102	87	17			205
" E	102	55	1			160
" F	144	109	24			277
10th Ward—A	121	101	101			324
" B	128	81	136			351
" C	105	78	105			299
" D	107	45	124			283
" E	65	50	137			258
" F	64	36	76			178
11th Ward—A	192	108	209			512
" B	113	69	154			346
" C	100	33	78			212
" D	110	56	130			301
" E	53	42	68			166
" F	53	55	94			205
12th Ward—A	103	43	67			219
" B	95	126	81			304
" C	57	69	96		1	224
" D	104	123	191			422
" E	56	50	86			200
13th Ward—A	46	179	157			386
" B	34	134	96			261
" C	74	116	144			336
" D	74	82	60			218
" E	102	69	175			350
" F	57	26	37			121
14th Ward—A	56	77	30			167
" B	109	100	96			304
" C	135	158	100			397
" D	85	94	95			279
" E	83	87	116			290
15th Ward—A	114	116	39			276
" B	130	105	38			277
" C	91	90	47			233
" D	104	110	80			297
" E	105	120	138			370
16th Ward—A	117	79	22	1		219
" B	64	133	22			220
" C	103	129	31	1	1	267
" D	79	166	41			288
" E	64	70	27			164
" F	74	163	78			319

HAMILTON COUNTY—Continued.

Townships and Wards.	Governor—1877.					Total vote.
	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	
Cincinnati—Continued—						
17th Ward—A	112	121	9			250
" B	97	79	11			190
" C	98	69	10			178
" D	218	218	36			480
" E	162	100	16			282
" F	107	96	22			227
18th Ward—A	98	105	21			227
" B	86	94	29			212
" C	109	122	24			257
" D	74	64	28			169
" E	111	104	31			249
" F	110	107	36			268
" G	69	63	16			149
19th Ward—A	163	162	38			369
" B	131	194	35			374
" C	68	134	46			247
" D	10	118	13			141
" E	27	190	25			243
" F	18	127	46			193
20th Ward—A	143	129	46			322
" B	73	96	60			229
" C	49	74	16			143
" D	122	145	60			329
" E	21	155	49			228
" F	20	128	45			193
21st Ward—A	68	212	197		1	478
" B	35	151	46			233
" C	29	195	66			290
" D	37	121	108			265
" E	37	73	25			136
" F	74	44	95			213
22d Ward—A	80	90	71			244
" B	87	161	65			313
" C	167	126	100			393
" D	16	68	24			113
" E	100	203	116			426
" F	12	31	23			66
23d Ward—A	84	100	27			212
" B	92	125	41			260
" C	83	97	37			217
" D	121	51	38			212
" E	144	89	83			320
" F	80	32	66			198
" G	149	109	100			361
24th Ward—A	95	87	35			217
" B	121	80	33			234
" C	95	89	36			220
" D	129	99	79	1		312
" E	81	83	50			223
25th Ward—A	176	94	34		1	307
" B	81	152	44			278
" C	124	110	41			232
Anderson Township—						
North Precinct	39	187	9			277
Central "	84	97	1			184
South "	54	101	31	2		194
Colerain Township—						
North-east Precinct	161	237	1		1	401
South-west "	108	117	3			229
Columbia Township—						
West Precinct	113	100	3			218
Central "	142	188	60			395
East "	54	53				107
Oakley "	61	55	1			120
Crosby Township	87	111	1		1	201
Delhi Township—						
Western Precinct	72	43	44			159
Eastern "	90	51	11			1

HAMILTON COUNTY—Continued.

Townships and Wards.	Governor—1877.					Total vote.
	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	
Green Township—						
South-western Precinct.....	70	59	1			130
North-western ".....	79	76	1			156
South-eastern ".....	165	115	2			282
North-eastern ".....	87	71	1			160
Harrison Township.....	156	224	16			396
Miami Township.....	201	234	4			441
Mill Creek Township—						
North-east Precinct.....	113	127	3			243
Winton Place ".....	102	26				129
Clifton ".....	72	53	7			133
Western ".....	32	29				61
Avondale ".....	216	115	17			354
St. Bernard ".....	56	140	26			222
College Hill ".....	87	46	2		16	151
Bond Hill ".....	47	46	7			105
Riverside ".....	66	62	52		1	185
Springfield Township—						
South-east Precinct.....	253	110	21			386
North-east ".....	211	237	2			451
West ".....	92	276				370
Hartwell ".....	115	51	3			168
Spencer Township—						
North Precinct.....	64	45				109
South ".....	4	52				57
Screamore Township—						
East Precinct.....	106	152	3			262
Sharonville Precinct.....	89	129	7			225
Reading Precinct.....	140	325	78			548
Symmes Township—						
North Precinct.....	71	70	1			143
Camp Dennison Precinct.....	65	48	1			115
Whitewater Township.....	49	63				113
North Precinct.....	46	109				157
Totals.....	17,156	20,525	9,076	6	24	47,290

HAMILTON COUNTY—Continued.

Townships and Wards.	Secretary of State—1878.				Total vote.
	David R. Faig.	Milton Barnes.	Andrew Roy.	Jeremiah N. Robinson.	
Cincinnati—					
1st Ward—A.....	226	244	2	.....	474
" B.....	232	254	1	.....	480
" C.....	435	405	4	.....	841
" D.....	167	288	1	.....	457
2d Ward—A.....	527	805	13	.....	1333
" B.....	138	321	.....	.....	461
3d Ward—A.....	440	601	6	.....	1152
" B.....	750	127	40	.....	913
4th Ward—A.....	351	117	8	.....	461
" B.....	432	221	18	.....	688
" C.....	357	412	10	.....	784
5th Ward—A.....	250	249	2	.....	503
" B.....	543	347	8	.....	902
6th Ward—A.....	298	213	.....	.....	628
" B.....	593	395	.....	.....	1005
7th Ward—A.....	315	617	.....	.....	964
" B.....	309	295	4	.....	629
8th Ward—A.....	338	307	.....	.....	652
" B.....	569	188	3	.....	754
9th Ward—A.....	393	614	14	.....	1033
" B.....	207	337	9	.....	550
10th Ward—A.....	283	686	4	.....	1035
" B.....	247	457	3	.....	724
11th Ward—A.....	336	730	1	.....	1104
" B.....	147	434	3	.....	610
12th Ward—A.....	254	350	.....	.....	605
" B.....	368	515	.....	.....	919
13th Ward—A.....	441	269	3	.....	734
" B.....	361	551	.....	.....	954
14th Ward—A.....	386	510	.....	.....	904
" B.....	260	263	2	.....	534
15th Ward—A.....	327	508	5	.....	855
" B.....	238	360	2	.....	609
16th Ward—A.....	368	371	12	.....	756
" B.....	449	355	16	.....	839
17th Ward—A.....	470	694	11	.....	1184
" B.....	241	305	2	.....	543
18th Ward—A.....	510	458	19	.....	999
" B.....	328	387	10	.....	735
19th Ward—A.....	646	312	31	.....	992
" B.....	350	241	2	.....	597
20th Ward—A.....	396	435	7	.....	854
" B.....	456	250	23	.....	714
21st Ward—A.....	660	447	23	.....	1134
" B.....	393	124	9	.....	531
22d Ward—A.....	334	404	7	.....	757
" B.....	473	420	22	.....	928
23d Ward—A.....	347	340	1	.....	690
" B.....	360	794	1	.....	1183
24th Ward—A.....	311	427	5	.....	746
" B.....	275	348	2	.....	625
25th Ward—A.....	360	510	35	.....	912
Anderson Township—					
North Precinct.....	228	44	.....	.....	273
Center ".....	171	116	1	1	293
South ".....	139	76	2	.....	217
Colerain Township—					
North-east Precinct.....	244	163	.....	.....	407
South-west ".....	130	113	3	.....	247
Columbia Township—					
West Precinct.....	94	129	.....	.....	223
Center ".....	203	238	5	.....	450
East ".....	45	79	.....	.....	124
Oakley ".....	63	85	.....	.....	149
Crosby Township.....	118	85	5	.....	208

HAMILTON COUNTY—Continued.

Townships and Wards.	Secretary of State—1878.				Total vote.
	David R. Paige.	Milton Barnes.	Andrew Roy.	Jeremiah N. Robinson.	
Delhi Township—					
West Precinct...	74	99	7		181
East ".....	71	120			198
Green Township—					
South-west Precinct.....	77	86			164
North-west ".....	83	87			170
South-east ".....	142	185			327
North-east ".....	104	119			223
Harrison Township.....	256	173	9		448
Miami Township.....	260	201			460
Mill Creek Township—					
North-east Precinct.....	158	140			298
Winton Place ".....	31	131			163
Clifton ".....	64	71			135
Western ".....	45	31			77
Avondale ".....	161	293			457
St. Bernard ".....	171	107			277
College Hill ".....	60	106	7		173
Bond Hill ".....	66	62			129
Riverside ".....	87	102	9		200
Springfield Township—					
Wyoming Precinct.....	109	208	6		395
North-east ".....	223	220	28		474
West ".....	297	108	1		407
Hartwell ".....	60	135			195
Spencer Township—					
North Precinct.....	48	84			133
South ".....	50	4			54
Sycamore Township—					
East Precinct.....	170	143	3		317
Sharonville Precinct.....	151	108	1		261
Reading ".....	321	223	9		613
Symmes Township—					
North Precinct.....	115	108			223
Camp Dennison Precinct.....	45	64			109
Whitewater Township—					
South Precinct.....	106	48	7		161
North ".....	101	60			161
Totals.....	24,458	25,622	503	8	51,195

HANCOCK COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Allen	131	101	232	79	131	.....	.....	.....	211	77	131	3	.....	.....	211
Amanda	20	118	318	100	178	.....	13	.....	291	133	186	6	.....	.....	291
Big Lick	146	130	276	115	116	.....	.....	.....	241	168	130	19	.....	.....	257
Blanchard	135	107	322	160	106	.....	1	.....	267	156	107	10	.....	.....	273
Cass	84	101	185	97	77	.....	.....	.....	174	79	79	15	.....	.....	173
Delaware	141	202	343	167	196	.....	.....	.....	293	175	137	5	.....	.....	317
Eagle	205	97	302	88	186	.....	.....	.....	274	96	168	11	.....	.....	275
Findlay—																
West Precinct	310	356	669	323	368	.....	7	4	642	294	281	99	.....	.....	548
East "	228	316	544	263	237	.....	4	2	512	252	232	64	.....	.....	474
Jackson	166	101	267	78	148	.....	.....	.....	228	83	160	14	.....	.....	257
Liberty	115	118	233	110	91	.....	2	.....	203	116	104	.....	.....	.....	219
Madison	146	93	243	59	102	.....	4	.....	165	69	119	10	5	.....	203
Marion	108	109	217	106	102	.....	.....	.....	208	111	102	6	.....	.....	219
Orange	184	121	305	111	144	.....	.....	.....	255	82	119	13	.....	.....	214
Portage	125	107	232	75	110	.....	.....	.....	187	95	119	1	.....	.....	215
Pleasant	194	172	370	151	157	.....	2	.....	314	133	158	21	2	.....	335
Union	944	146	390	125	223	.....	6	.....	348	130	185	20	.....	.....	335
Van Buren	122	55	177	32	111	.....	.....	.....	142	30	106	.....	.....	.....	136
Washington	231	178	409	127	191	.....	.....	.....	325	.....	.....	.....	.....	.....	.....
Fostoria Precinct .....	.....	.....	.....	.....	.....	.....	.....	.....	59	92	23	.....	.....	.....	174
Washington " .....	.....	.....	.....	.....	.....	.....	.....	.....	85	119	22	.....	.....	.....	296
Totals.....	3215	2811	6334	2366	2854	.....	39	14	5280	2363	2804	362	8	.....	5535

HARDIN COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Blanchard	184	243	440	261	196	.....	13	.....	472	262	202	.....	24	.....	468
Buck	154	185	341	168	162	.....	1	.....	332	126	126	.....	5	.....	257
Cass	137	84	222	191	117	.....	1	.....	269	97	125	.....	.....	.....	292
Dudley	122	175	299	152	114	.....	3	.....	270	159	120	.....	10	.....	289
Goshen	127	100	224	91	133	.....	1	.....	215	92	113	.....	10	.....	215
Hale	104	298	393	238	118	.....	2	.....	382	274	119	.....	4	.....	400
Jackson	221	201	428	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Forest Precinct	.....	.....	.....	105	109	.....	5	.....	219	126	109	.....	6	.....	241
Patterson "	.....	.....	.....	81	118	.....	.....	.....	199	83	122	.....	1	.....	295
Liberty	371	283	656	256	372	.....	5	.....	634	310	387	.....	11	.....	711
Lynn	98	78	176	88	86	.....	.....	.....	174	89	95	.....	.....	.....	185
Marion	59	137	196	139	66	.....	.....	.....	207	139	55	.....	.....	.....	197
McDonald	129	163	292	154	124	.....	.....	.....	282	165	132	.....	.....	.....	299
Pleasant	650	519	1170	504	699	.....	5	.....	1217	142	211	.....	5	.....	358
Kenton—																
1st Ward	.....	.....	.....	.....	.....	.....	.....	.....	.....	114	156	3	4	.....	279
2d "	.....	.....	.....	.....	.....	.....	.....	.....	.....	130	134	.....	6	.....	273
3d "	.....	.....	.....	.....	.....	.....	.....	.....	.....	135	112	2	6	.....	233
4th "	.....	.....	.....	.....	.....	.....	.....	.....	.....	129	128	1	1	.....	297
Round Head	82	145	227	146	59	.....	.....	.....	206	136	68	.....	.....	.....	291
Taylor Creek	90	137	230	140	76	.....	.....	.....	217	146	87	.....	.....	.....	233
Washington	174	87	265	90	184	.....	.....	.....	280	101	185	.....	3	.....	290
Totals	2702	2830	5563	2724	2724	.....	35	.....	5515	2908	2786	6	96	.....	5804

HARRISON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Archer	122	65	187	50	107	.....	.....	.....	157	66	100	.....	.....	166
Athens—															
First Precinct.....	84	96	128	23	89	.....	.....	3	115	18	85	12	.....	115
Second ".....	49	105	159	93	57	.....	.....	.....	133	95	52	3	1	151
Cadiz	223	449	678	413	239	.....	.....	2	656	404	226	15	.....	646
Franklin	84	192	286	158	78	1	12	.....	251	127	63	24	6	220
Freeport	116	151	269	129	103	.....	.....	.....	233	113	96	12	.....	221
German	218	110	329	88	188	.....	4	.....	290	87	140	1	.....	228
Greene	192	169	362	132	175	.....	.....	.....	315	141	170	.....	.....	317
Monroe	120	149	261	132	117	.....	.....	.....	249	117	104	7	.....	228
Moorfield	143	96	245	87	143	.....	6	.....	237	77	144	3	4	222
North	115	206	321	152	117	1	.....	2	244	148	104	6	.....	258
Nottingham	63	145	208	125	60	.....	1	.....	186	131	52	.....	.....	183
Ramley	181	101	284	89	172	.....	.....	.....	261	92	158	.....	.....	250
Short Creek	78	350	439	331	70	.....	.....	.....	402	312	66	7	.....	385
Stock	107	86	194	83	91	.....	.....	.....	175	81	91	.....	.....	172
Washington	114	155	269	140	106	.....	.....	.....	247	120	88	.....	.....	208
Totals	3020	2564	4649	2232	1912	2	23	7	4165	2129	1739	90	11	3976	

HENRY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Bartlow	136	108	244	53	108	...	...	...	161	59	96	51	...	267
Damascus	137	147	285	102	116	...	...	...	219	96	93	22	...	211
Flat Rock	192	130	322	77	125	...	...	...	203	75	142	18	...	235
Freedom	185	43	228	30	127	...	...	...	158	34	125	3	...	162
Harrison	152	160	314	115	123	...	...	...	238	52	104	61	...	217
Liberty—															
East Precinct	107	101	210	60	102	...	...	1	172	56	97	36	...	190
West "	167	73	240	49	125	...	...	...	175	40	145	17	...	202
Marion	124	54	181	25	96	...	...	...	122	18	110	11	...	139
Monroe	149	41	190	24	82	...	...	...	112	8	98	35	...	143
Napoleon	557	335	901	249	464	...	...	1	719	171	427	167	...	769
Pleasant	232	55	227	41	149	...	...	...	193	...	...	...	...	...
New Bavaria Precinct .....	...	...	...	...	...	...	...	...	...	14	130	...	...	144
Holgate " .....	...	...	...	...	...	...	...	...	...	23	60	4	...	88
Richfield	58	104	164	55	38	...	...	...	93	31	49	8	...	88
Ridgeville	100	66	166	28	66	...	10	7	102	20	71	49	...	140	
Washington	150	106	256	59	116	...	...	10	186	70	116	25	...	211
Totals	2445	1527	3988	967	1843	...	10	19	2553	767	1863	507	...	3146	

HIGHLAND COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis M. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Faige.	Andrew Roy.	Jere N. Robinson.		
Brush Creek—															
North Precinct.....	59	69	128	63	55				118	74	68				142
South ".....	81	118	199	108	74				183	121	84				207
Clay.....	136	155	292	130	97				227	140	147				288
Concord.....	159	133	292	112	135				248	114	148				262
Dodson.....	270	145	425	117	264		9		390	125	275		6		406
Fairfield.....	184	409	597	348	175		9		537	380	189				572
Hamer.....	201	49	250	39	176				215	44	188				233
Jackson.....	145	74	220	59	136		1		197	60	130		1		191
Liberty—															
North Precinct.....	246	290	537	274	224	1			502	308	249				561
South ".....	268	362	630	373	244	4	1		632	387	261				653
Madison.....	302	484	791	429	289				722	478	305				784
Marshall.....	106	66	172	62	111				174	67	101				168
New Market.....	182	92	274	89	160				252	86	183				269
Paint—															
North Precinct.....	101	132	233	142	88				230	138	118				256
South ".....	126	185	312	172	111				285	166	199				297
Penn.....	139	195	334	189	132				321	180	148				328
Salem.....	163	67	230	64	155				219	62	179				242
Union.....	196	120	316	107	181		2	2	292	93	164				258
Washington.....	134	65	200	59	131				193	57	136				193
White Oak.....	125	111	236	86	118				205	111	136				246
Totals.....	3323	3341	6688	3021	3056	....	22	2	6132	3191	3338	....	7	....	6536

HOCKING COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayea.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Benton.....	211	109	320	82	186	.....	.....	.....	271	91	147	28	.....	269
Falls.....	501	391	892	354	444	.....	5	2	815	.....	.....	.....	.....	.....
Falls Precinct.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	331	352	40	.....	728
Gore ".....	.....	.....	.....	.....	.....	.....	.....	.....	.....	103	105	5	.....	214
Green.....	176	176	352	146	131	.....	.....	.....	282	161	138	49	.....	350
Good Hope.....	157	59	216	50	128	.....	.....	.....	178	54	131	4	.....	199
Laurel.....	191	78	269	70	164	.....	.....	.....	235	61	131	42	.....	238
Marion.....	200	78	278	50	172	.....	.....	.....	223	48	154	9	.....	210
Perry.....	254	125	379	87	193	.....	8	.....	289	89	181	7	.....	281
Salt Creek.....	186	66	252	42	149	.....	.....	.....	191	58	150	1	.....	210
Starr.....	113	177	290	115	83	.....	.....	.....	201	153	74	16	.....	247
Ward.....	117	86	203	63	98	.....	.....	1	144	88	118	61	.....	267
Washington.....	153	130	283	106	128	.....	.....	.....	235	118	139	10	.....	267
Totals.....	2259	1475	3734	1165	1876	.....	13	3	3064	1355	1820	272	.....	3421

HOLMES COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Berlin	160	81	241	57	123	...	...	...	182	53	104	...	...	157
German	229	22	253	14	193	...	9	...	221	16	138	...	...	156
Hardy	515	199	717	185	495	...	...	...	685	173	425	11	...	614
Killbuck	226	76	302	65	222	...	...	...	282	53	198	2	...	253
Knox	167	59	227	49	132	...	...	...	181	42	133	...	...	170
Mechanic	191	78	274	69	178	...	2	...	268	57	142	...	...	199
Monroe	149	93	242	22	130	...	...	...	212	71	122	...	...	193
Paint	234	51	287	40	191	...	...	...	231	31	193	1	...	226
Prairie	217	124	367	102	219	...	5	...	326	99	187	...	...	287
Richland	266	69	335	51	206	...	...	...	258	51	192	...	...	243
Ripley	162	155	318	112	161	...	...	...	273	194	141	...	...	244
Salt Creek	234	93	327	76	219	...	...	...	287	83	172	...	...	255
Walnut Creek	220	16	236	10	165	...	...	...	175	6	138	...	...	144
Washington	181	118	299	88	150	...	...	...	238	65	117	...	...	185
Totals	3171	1241	4425	1090	2780	...	16	...	3877	904	2104	17	2	3330

HURON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Bronson	90	173	...	131	85	...	6	3	225	146	35	81	1	263
Bellevue Precinct	184	148	...	111	137	...	2	1	253	137	68	85	...	290
Clarksfield	51	221	...	149	51	...	12	1	217	136	29	107	15	296
Fairfield	89	264	...	220	68	...	2	3	303	214	60	39	1	315
Fitchville	34	180	...	134	36	...	5	...	176	131	39	32	3	196
Greenfield	92	142	...	112	81	...	1	4	195	117	28	77	1	224
Greenwich	82	203	...	135	24	...	25	...	245	161	52	67	15	297
Hartland	42	202	...	145	38	...	1	9	191	141	21	67	2	214
Lyme	134	119	...	94	97	...	...	...	191	93	44	80	...	214
New London	104	350	...	270	105	...	17	1	394	250	64	77	8	399
New Haven	213	156	...	25	134	...	1	15	245	105	131	39	...	275
Norwalk	644	910	...	927	533	...	27	150	1444	678	205	621	22	1533
Norwich	136	135	...	115	111	...	6	...	244	122	88	15	7	242
Peru	176	93	...	65	140	...	1	3	211	81	126	27	1	215
Plymouth Precinct	53	83	...	62	45	...	...	...	107	56	40	7	1	104
Richmond	97	128	...	22	68	...	...	7	157	85	60	22	...	168
Ridgefield	296	270	...	221	254	...	2	11	488	237	167	68	2	477
Ripley	67	204	...	153	49	...	9	...	212	163	38	16	4	223
Sherman	216	31	...	30	147	...	1	...	179	27	128	48	...	204
Townsend	88	262	...	158	78	...	4	22	262	158	48	101	24	336
Wakeman	126	210	...	165	110	...	16	9	305	129	49	134	29	341
Totals	3014	4504	7586	3274	2454	...	138	239	6127	3366	1514	1814	136	6849

JACKSON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Bloomfield	121	194	.....	161	115	.....	3	.....	980	902	196	.....	4	338
Franklin	133	197	.....	150	119	.....	.....	.....	963	180	111	.....	.....	295
Hamilton	48	106	.....	74	42	.....	.....	.....	116	86	45	.....	.....	133
Jackson	177	160	.....	121	160	.....	.....	.....	922	153	176	.....	.....	331
Jefferson	101	377	.....	288	114	.....	.....	.....	411	331	110	.....	.....	441
Lick—														
1st Precinct	202	246	.....	212	196	.....	1	.....	416	238	214	4	2	458
2d "	254	236	.....	205	245	.....	3	.....	458	205	247	16	1	471
Liberty	212	151	.....	130	182	.....	.....	.....	317	140	203	1	.....	344
Madison	95	354	.....	238	84	.....	.....	4	396	309	99	10	.....	418
Milton	267	286	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1st Precinct .....	.....	.....	.....	147	205	.....	16	.....	370	159	189	.....	21	369
2d " .....	.....	.....	.....	81	109	.....	4	.....	194	100	161	8	3	272
Scioto	204	97	.....	80	168	.....	.....	.....	253	76	200	19	.....	295
Washington	140	118	.....	116	113	.....	3	.....	235	111	130	6	1	248
Totals	1954	2522	4484	2003	1845	2	30	4	3921	2294	2011	66	34	4407

JEFFERSON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Brush Creek	69	86	151	74	66	.....	.....	.....	140	76	54	.....	.....	134
Cross Creek	122	124	246	112	114	.....	1	.....	227	99	97	7	.....	204
Irondale Precinct	14	52	66	40	13	.....	3	.....	57	35	7	2	.....	44
Island Creek	144	145	290	102	108	.....	1	.....	212	116	78	7	.....	201
Knox	130	125	255	95	103	.....	2	.....	200	106	89	2	.....	197
La Grange Precinct	173	66	143	56	53	.....	4	13	125	40	55	14	4	113
Mount Pleasant	69	265	314	213	65	.....	34	.....	313	245	74	.....	28	350
Mingo Precinct	66	73	139	32	46	.....	.....	63	141	19	27	49	.....	96
Richmond Precinct	99	135	235	114	69	.....	.....	.....	203	117	93	.....	1	213
Ross	61	108	169	82	55	.....	1	2	141	90	51	3	.....	145
Salem	119	65	184	67	120	.....	.....	.....	187	58	106	3	.....	167
Saline	65	116	187	69	60	.....	13	.....	142	82	54	5	.....	140
Shanghai Precinct	26	72	98	63	17	.....	3	.....	83	57	14	5	.....	76
Sloan's Station Precinct	70	94	164	76	92	.....	1	2	172	98	107	5	.....	210
Smithfield	90	223	314	175	73	.....	17	1	268	194	73	.....	15	283
Springfield	92	112	205	86	82	.....	.....	.....	168	83	83	1	.....	167
Steenbenville—														
1st Ward	153	253	392	183	123	.....	41	.....	346	191	107	50	.....	347
2d "	214	411	633	311	163	.....	61	.....	534	304	109	105	.....	525
3d "	213	315	536	251	175	.....	11	.....	439	240	138	31	.....	410
4th "	205	206	413	187	176	.....	1	.....	364	189	145	28	.....	363
5th "	137	122	259	100	120	.....	5	.....	225	93	112	33	.....	239
6th "	97	123	226	50	67	.....	92	.....	208	39	38	140	.....	218
Steenbenville Township	42	32	74	20	30	.....	3	.....	53	18	19	10	.....	49
Unionport Precinct	25	75	101	67	18	.....	1	.....	86	69	22	.....	.....	91
Warren	214	159	375	113	158	.....	5	2	279	124	127	21	.....	272
Wayne	190	194	314	154	116	.....	2	1	273	168	116	1	1	288
Wells	111	64	175	49	96	.....	.....	.....	145	54	80	1	.....	135
Wintersville Precinct	50	173	223	148	41	.....	2	.....	191	150	34	2	.....	187
York	42	105	147	89	45	.....	1	.....	136	100	43	.....	.....	143
Totals	2922	4067	7048	3178	2484	.....	65	324	6058	3254	2156	525	49	6005

KNOX COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Berlin	115	111	227	89	101	6	3	...	200	104	107	5	3	...	219	
Brown	173	92	266	66	127	...	14	...	207	72	147	2	6	...	227	
Butler	97	58	155	46	92	...	6	...	144	36	104	24	2	...	166	
Clay	121	111	240	110	113	1	14	...	238	99	114	14	12	...	240	
Clinton	149	107	261	92	138	1	3	...	235	70	130	41	6	...	247	
College	76	106	182	97	67	...	...	...	166	103	72	4	...	...	179
Harrison	147	53	170	21	149	...	...	...	170	20	143	2	2	...	169
Hilliard	144	137	281	114	128	1	...	12	255	111	129	24	7	...	275	
Howard	122	111	233	102	117	1	6	...	226	110	126	2	1	...	240	
Jackson	139	47	190	36	126	...	7	...	170	38	140	21	4	...	203	
Jefferson	108	115	223	90	91	...	4	...	186	79	106	3	14	...	203	
Liberty	145	95	243	72	144	1	6	1	224	61	132	36	9	...	238	
Middlebury	73	159	234	105	67	...	6	...	200	112	67	24	5	...	208	
Milford	110	101	215	115	98	1	5	...	210	91	102	10	5	...	208	
Miller	87	115	202	103	79	...	4	...	186	96	78	13	2	...	190	
Monroe	149	98	247	82	149	...	3	...	235	77	145	11	2	...	235	
Morgan	91	68	159	68	59	...	...	...	157	71	87	1	...	...	160
Morris	107	112	229	84	86	...	26	...	197	79	87	13	33	...	214	
Pike	224	81	321	55	203	...	24	...	266	49	196	10	23	...	279	
Pleasant	131	89	221	86	127	...	...	...	214	69	116	15	1	...	201
Union	215	186	409	155	183	...	16	...	355	156	204	25	18	...	404	
Wayne	167	245	414	221	156	...	6	2	387	215	163	27	6	...	412	
Mt. Vernon—																
1st Ward.....	87	137	231	115	110	6	6	2	240	124	102	21	4	...	252	
2d "	77	80	158	60	70	17	1	2	160	53	73	51	3	...	180	
3d "	62	140	204	118	69	9	9	2	208	118	55	42	5	...	220	
4th "	54	153	212	96	63	21	14	2	196	102	48	53	8	...	212	
5th "	131	274	413	200	111	52	12	3	379	178	99	107	8	...	393	
Totals.....	3301	3151	6544	2588	3063	117	199	26	6031	2493	3072	601	180	...	6376	

LAKE COUNTY.

Townships and Wards.	President—1876.			Total vote.	Governor—1877.							Total vote.	Secretary of State—1878.					Total vote.
	Sannel J. Tilden.	R B Hayes	William H. West.		Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.	David R. Paige.	Andrew Roy.		Jere N. Robinson.					
Concord	34	150	198	108	30	....	2	14	154	107	26	41	....	175		
Kirtland	71	191	275	153	66	....	6	...	225	149	50	32	....	234		
Leroy	58	145	204	112	60	....	...	1	174	118	45	13	....	176	
Madison	163	633	796	466	144	....	9	...	619	485	149	2	....	639		
Mentor	102	352	459	248	67	....	...	5	320	250	65	64	....	379	
Palmeville.....	435	778	1219	576	347	....	3	25	953	540	434	140	....	1112		
Perry	76	275	352	218	52	....	...	12	229	236	49	27	....	308	
Willoughby	202	410	620	278	140	....	6	1	429	287	136	41	2	468			
Totals	1141	2935	4143	2159	906	....	26	58	3156	2172	958	356	2	3511			

LAWRENCE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jesse N. Robinson.	
Ald	60	222	282	143	50	...	...	4	207	162	48	11	3	225
Decatur	116	120	236	52	150	...	...	25	225	96	165	22	1	284
Elizabeth	399	294	693	98	289	...	1	197	585	151	282	167	2	620
Fayette	174	273	447	194	120	...	...	6	320	231	141	1	...	373
Hamilton	100	127	227	83	82	...	6	28	201	101	68	25	9	293
Lawrence	71	219	290	148	69	...	3	5	228	177	74	8	1	265
Mason	208	166	374	124	178	...	...	5	366	227	168	10	...	305
Perry	178	235	414	139	149	...	...	37	326	263	152	12	1	374
Rome	275	202	477	144	204	...	1	3	354	165	187	13	2	370
Synnes	93	127	220	91	81	...	...	8	180	110	89	1	...	200
Union	99	314	413	167	39	...	...	84	291	242	54	85	4	450
Upper	215	247	462	199	165	...	...	10	376	274	174	3	...	450
Washington	119	122	241	80	85	...	2	5	172	122	66	2	...	189
Windsor	165	239	404	170	126	...	...	...	307	186	106	6	1	300
Ironton—														
1st Ward	132	198	330	168	123	...	...	9	300	200	108	7	...	316
2d "	169	186	355	136	145	...	...	8	290	151	133	2	...	287
3d "	103	221	323	191	102	...	4	...	305	219	79	...	...	274
4th "	95	213	310	179	75	1	2	...	264	192	76	2	3	203
5th "	164	198	362	144	166	...	...	22	334	171	144	5	...	321
Totals	2949	3975	6925	2650	2417	1	19	463	5571	3282	2312	382	32	6040

LICKING COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jesse N. Robinson.	
Bennington	126	74	200	56	116	...	6	...	179	35	119	33	4	194
Bowling Green	164	69	233	64	158	...	...	1	225	73	132	8	...	233
Burlington	134	115	250	83	105	...	11	...	200	95	112	3	1	211
Eden	126	32	158	27	115	...	2	...	144	18	129	2	4	154
Etna	119	85	204	55	149	...	5	...	210	64	168	...	...	235
Fallsburgh	198	94	292	69	108	...	1	...	178	77	102	3	...	182
Franklin	165	88	253	21	152	...	4	1	178	21	150	11	...	182
Granville	150	354	505	226	167	...	1	6	469	331	141	29	...	501
Hanover	172	124	296	96	135	...	2	14	248	88	142	27	...	257
Hartford	148	138	286	94	144	...	...	...	238	109	135	5	...	253
Harrison	131	189	320	145	101	...	...	...	266	176	121	...	...	300
Hopewell	173	53	226	45	159	...	...	...	207	34	142	...	...	198
Jersey	149	148	297	118	134	...	2	2	250	130	142	9	...	283
Liberty	103	106	209	80	87	...	4	4	171	74	84	17	...	180
Licking	254	49	303	45	214	...	1	...	261	42	206	15	4	267
Lima	219	225	444	181	200	...	1	15	390	196	199	4	1	400
Madison	178	74	252	63	149	...	2	2	214	63	117	13	...	183
Mary Ann	141	53	194	39	133	...	3	...	171	52	123	...	...	176
McKean	153	87	240	77	134	...	1	...	212	60	103	30	...	183
Monroe	152	108	260	91	136	...	...	...	230	60	124	22	...	206
Newark	156	108	264	80	142	...	3	7	232	78	136	14	1	230
Newark—														
First Ward	269	283	552	192	200	...	5	91	492	200	200	109	2	524
Second "	392	202	594	79	281	...	...	125	489	87	291	132	...	515
Third "	324	200	524	98	241	...	2	122	470	84	257	144	1	499
Fourth "	267	293	560	214	207	...	1	5	523	216	215	128	3	542
Newton	228	116	344	81	210	...	18	3	312	81	185	5	14	287
Perry	114	103	217	84	116	...	...	...	200	83	113	8	...	204
St. Albans	125	163	288	142	125	...	1	...	268	153	125	3	4	285
Union	316	136	452	110	263	...	...	...	374	114	273	12	...	402
Washington	127	202	329	147	140	...	23	...	310	158	140	19	22	339
Totals	5473	3962	9435	2982	4719	1	100	490	8336	3061	4650	807	63	8615

LOGAN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.			
Bloomfield	115	61	777	53	79	...	1	4	138	41	81	5	1	128		
Bokes Creek	7	248	335	203	80	...	5	...	294	209	78	...	1	291		
Harrison	104	119	217	83	93	...	2	...	183	98	82	...	...	186
Jefferson	166	194	369	189	161	...	5	...	403	181	174	...	5	361		
Lake	387	538	947	463	385	...	29	...	889	...	...	...	...	...
North Precinct	...	...	...	...	...	...	...	...	...	275	159	...	20	454
South Precinct	...	...	...	...	...	...	...	...	...	229	235	1	12	476
Liberty	135	242	377	212	117	...	1	...	336	167	115	...	3	288		
McArthur	105	195	312	153	92	...	19	1	268	187	94	...	15	295		
Mia. si—	...	...	...	...	...	...	...	...	...	...	...	...	...	...
DeGraff Precinct	108	167	280	138	85	...	3	4	233	140	89	7	9	246		
Quincy	87	139	230	116	76	...	6	2	200	102	53	16	4	179		
Monroe	102	192	294	149	89	...	...	...	245	156	60	2	3	221
Perry	56	182	240	154	54	...	2	1	211	168	54	...	2	224		
Pleasant	148	107	255	67	129	...	2	...	203	70	140	7	...	218		
Richland	116	209	328	170	109	...	8	...	288	160	104	1	9	276		
Rush Creek	189	263	458	231	187	...	...	...	431	251	182	...	...	433
Stokes	161	58	220	54	128	...	4	...	187	62	124	...	...	187
Union	57	111	170	69	39	...	6	...	115	69	36	...	4	109		
Washington	96	98	196	77	78	...	...	...	155	71	86	1	4	164
Zane	67	143	217	136	64	...	7	...	209	125	43	...	7	178		
Totals	2286	3250	5622	2717	2045	...	98	14	4988	2761	1980	42	99	4914		

LORAIN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.			
Amherst.....	332	286	621	155	228	...	...	40	423	181	234	66	...	...	468
Avon.....	280	169	449	141	178	...	...	1	321	153	185	...	...	...	338
Black River.....	105	224	329	152	96	...	...	1	259	901	35	110	...	...	348
Brighton.....	27	128	156	112	25	...	...	...	137	99	24	3	10	...	126
Brownhelm.....	137	165	305	105	92	...	...	4	202	122	93	35	...	...	250
Camden.....	83	153	237	125	79	...	...	1	207	145	67	9	...	...	223
Carlisle.....	120	33	318	97	143	...	...	...	242	102	122	27	1	...	253
Columbia.....	54	174	228	141	52	...	1	...	194	146	38	5	...	...	169
Eaton.....	81	205	287	172	52	...	...	...	225	181	53	3	...	...	238
Elyria.....	341	785	1131	593	270	...	7	3	885	729	224	73	3	...	1044	
Grafton.....	115	171	286	107	65	...	1	...	175	140	83	7	...	...	231
Henrietta.....	66	151	217	113	68	...	...	...	184	112	69	...	1	...	183
Huntington.....	50	151	203	136	60	...	...	...	199	141	56	3	...	...	200
LaGrange.....	163	199	359	158	139	...	...	6	303	184	138	10	...	...	338
Pearfield.....	39	163	205	135	46	...	...	...	180	130	49	7	3	...	189
Pittsfield.....	72	165	237	151	75	...	...	...	227	158	74	7	1	...	240
Ridgeville.....	157	194	351	132	125	...	...	...	258	162	115	4	...	...	282
Rochester.....	58	143	201	137	55	...	...	...	192	138	55	3	1	...	198
Russia.....	147	891	1054	574	149	...	27	43	795	709	128	89	31	...	961	
Sheffield.....	99	120	220	93	31	...	...	...	129	98	67	1	...	...	168
Wellington.....	134	417	569	355	134	...	1	5	495	367	109	23	48	...	551	
Totals.....	2720	5187	7963	3886	2162	...	37	104	6223	4398	2018	485	99	...	7027	

LUCAS COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	E. B. Hayes.		William H. West.	Richard M. Bishop.	Levi H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.		
Toledo—															
First Ward	313	682	1027					146	244	93	32	127			254
" A				68		29									385
" B				95		61		203	359	130	75	180	1		368
" C				81		63		126	271	96	69	122	1		288
Second Ward	378	511	939					77	242	129	86	100	1		315
" A				91		70		156	289	84	112	133			330
" B				51		82		117	249	80	57	128			266
" C				82		47									
Third Ward	436	801	1264					85	378	209	135	77			429
" A				163		130		77	340	198	118	87			404
" B				143		118		61	245	162	56	63			283
" C				104		77									
Fourth Ward	519	416	953					136	363	125	208				434
" A				76		147		202	287	47	69	141	1		250
" B				91		34		80	210	34	154	69	1		257
" C				22		106									
Fifth Ward	881	677	1592					241	488	27	199	203	1		501
" A				89		163		283	532	52	260	238			532
" B				60		186		273	341	30	77	259			376
" C				21		45									
Sixth Ward	306	373	649					167	347	77	157	135			368
" A				58		122		112	221	51	76	97			223
" B				39		70									
Seventh Ward	466	616	1131					175	281	57	109	113			279
" A				122		136		248	505	188	184	196	3		574
" B				116		55		59	230	176	40	50			268
" C															
Eighth Ward	533	479	1063					137	376	91	222	122			436
" A				69		165		143	190	14	22	164			200
" B				9		27		150	362	66	115	183			374
" C				69		142									
South Toledo—															
First Ward	75	129	207	56	75			43	175	64	65	37			166
Second Ward	64	64	128	27	63			33	123	30	57	30			119
Third Ward	35	16	57	8	40			13	61	12	26	17			35
Adams	86	146	235	61	72			46	180	61	80	74			215
Monclova	89	141	229	111	78			6	195	78	55	57			190
Oregon	123	216	341	100	86			68	254	115	81	153			350
Providence	129	132	261	71	87			28	187	42	73	68			182
Richfield	78	138	216	106	73			9	188	91	72	28			191
Spencer	50	85	137	24	40			39	105	19	34	64			117
Springfield	64	100	169	68	63			42	173	48	39	58			146
Swanton	39	83	124	42	25			1	68	41	15	34			90
Sylvania	93	282	316	120	64			59	243	118	72	43			222
Washington	148	334	492												
First Precinct					40		7	143	267	146	34	127	2		310
Second " "					30			25	70	39	21	18			78
Waterville	109	70	179	45	89			26	160	44	73	47			164
Waynesfield	24	38	64	16	22			11	49	17	25	12			55
Whitehouse	115	85	203	32	77			30	139	34	68	41			145
Totals	5155	6524	11978	2671	3155		7	4076	9957	3294	3521	3993	11		10860

MADISON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Canaan.....	87	123	.....	111	77	.....	1	.....	189	101	80	12	4	197
Darby.....	122	138	.....	123	115	.....	3	.....	245	140	111	1	5	260
Deer Creek.....	113	83	.....	76	115	.....	.....	.....	191	76	131	2	3	219
Fairfield.....	129	177	.....	170	132	.....	.....	.....	304	163	139	2	5	311
Jefferson.....	238	258	.....	266	236	.....	4	.....	566	249	217	.....	34	488
Monroe.....	69	89	.....	71	63	.....	.....	.....	134	69	43	.....	3	115
Oak Run.....	69	43	.....	44	77	.....	.....	.....	122	40	85	.....	.....	125
Paint.....	129	172	.....	166	145	.....	4	.....	316	154	139	1	9	304
Pike.....	40	78	.....	68	40	.....	.....	.....	108	68	43	.....	1	112
Pleasant.....	157	190	.....	184	152	.....	.....	.....	337	153	137	.....	3	293
Range.....	266	126	.....	131	276	.....	.....	.....	408	116	278	3	.....	398
Stokes.....	165	89	.....	89	154	.....	5	.....	250	98	155	1	10	264
Summerford.....	104	134	.....	136	84	.....	.....	.....	223	136	94	3	13	246
Union.....	457	491	.....	528	461	.....	8	.....	991	539	485	3	18	1040
Totals.....	2145	2191	4361	2165	2127	.....	25	.....	4324	2093	2151	28	108	4365

MAHONING COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Austintown.....	221	209	454	185	206	.....	5	40	436	177	183	101	.....	462
Beaver.....	277	180	470	153	227	.....	.....	35	417	177	234	31	.....	448
Berlin.....	99	130	234	112	92	.....	.....	5	210	106	76	19	.....	211
Boardman.....	92	114	212	80	89	.....	.....	4	176	102	81	10	.....	194
Canfield.....	207	167	378	150	181	.....	.....	2	334	161	180	20	.....	363
Centerville.....	79	144	250	95	76	.....	.....	61	234	115	73	56	.....	245
Ellsworth.....	92	96	188	86	82	.....	.....	.....	168	92	81	.....	.....	175
Goshen.....	71	269	346	234	65	.....	12	3	304	239	62	10	.....	311
Green.....	221	29	450	185	194	.....	.....	47	427	185	177	48	.....	410
Jackson.....	145	118	263	113	140	.....	.....	1	254	115	139	11	.....	256
Milton.....	129	56	186	54	121	.....	.....	2	177	60	110	.....	.....	170
Poland.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1st Precinct.....	60	175	257	143	59	.....	.....	45	247	154	35	37	.....	228
2d ".....	66	182	258	128	54	.....	.....	30	213	151	56	23	.....	232
Smith.....	94	287	406	182	62	.....	16	46	307	226	40	72	.....	342
Springfield.....	469	148	560	115	339	.....	1	25	481	132	351	7	.....	492
Youngstown.....	323	339	785	200	199	.....	.....	284	686	302	209	242	.....	516
Youngstown City—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1st Ward.....	297	377	740	255	160	.....	.....	232	649	372	157	146	.....	686
2d ".....	365	241	667	169	206	.....	.....	223	598	242	186	177	.....	610
3d ".....	225	208	462	107	110	.....	.....	165	344	170	104	109	.....	381
4th ".....	161	150	270	119	76	.....	.....	43	299	146	61	35	.....	246
5th ".....	116	122	254	93	62	.....	.....	46	222	134	79	.....	.....	245
Totals.....	3691	3921	8090	2947	2820	.....	34	1339	7163	3562	2684	1184	.....	7223

MARION COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Big Island	109	154	264	98	100	...	2	...	201	119	101	...	15	10	1	222
Bowling Green	208	50	259	36	166	...	3	...	206	43	157	...	...	...	3	203
Claridon—																
North Precinct	156	107	264	90	118	4	5	...	219	86	131	...	15	10	1	242
South "	71	79	153	70	70	...	1	...	142	79	61	...	...	...	...	143
Grand	47	65	113	53	42	...	...	...	95	59	31	...	...	...	...	90
Grand Prairie	50	49	99	37	44	...	...	...	85	43	48	...	1	...	...	94
Green Camp	155	129	284	109	141	...	...	...	252	129	135	...	...	...	...	264
Marion	600	524	1141	454	546	19	20	...	1052	502	554	...	1	17	...	1080
Montgomery—																
East Precinct	96	79	176	72	79	...	5	2	159	82	77	...	...	5	...	164
West "	115	114	234	108	102	...	6	...	216	127	106	...	...	1	...	241
Pleasant	131	109	240	96	110	...	...	...	208	105	124	...	...	6	...	234
Prospect	222	154	376	108	195	...	...	...	303	146	189	...	...	1	...	337
Richland	214	43	257	30	192	...	...	...	222	39	185	...	...	...	...	244
Salt Rock	44	77	121	55	26	...	4	...	85	70	35	...	...	...	1	106
Scott	106	99	205	12	96	...	...	...	98	92	35	...	43	...	...	101
Tully	117	79	196	59	98	...	...	...	157	60	103	1	...	...	1	165
Tully	117	79	196	59	98	...	...	...	157	60	103	1	...	...	1	165
Waldo	162	77	239	47	133	...	1	...	182	50	121	...	...	...	...	180
Totals	2603	1918	4552	1534	2252	23	49	2	3882	1770	2196	...	61	46	...	4088

MEDINA COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Brunswick	66	189	255	163	70	.....	1	.....	235	156	59	1	9	.....	225
Chatham	66	188	255	139	61	.....	15	.....	217	161	55	.....	6	.....	223
Grainger	52	200	252	171	41	.....	.....	.....	212	106	43	.....	.....	.....	210
Guilford	147	152	300	116	113	.....	.....	.....	229	127	106	.....	.....	.....	234
Harrisville	150	196	351	179	147	.....	.....	.....	330	153	141	.....	.....	.....	297
Hinckley	39	240	269	184	45	.....	.....	.....	233	184	36	.....	5	.....	227
Homer	155	74	228	56	144	.....	.....	.....	201	55	134	.....	.....	.....	195
Lafayette	112	186	298	160	105	.....	2	.....	267	165	98	.....	1	.....	265
Litchfield	86	156	243	126	77	.....	.....	.....	203	135	70	.....	.....	.....	208
Liverpool	233	84	317	50	160	.....	3	.....	212	65	117	.....	28	.....	296
Medina	64	142	207	127	62	.....	.....	.....	189	129	55	1	4	.....	189
Medina Village	57	257	314	234	60	.....	2	.....	304	262	73	6	.....	.....	346
Montville	96	111	209	106	87	.....	2	.....	197	92	87	.....	.....	.....	181
Sharou	174	127	301	105	165	.....	.....	.....	271	105	140	.....	.....	.....	252
Spencer	130	110	245	92	118	.....	2	.....	215	101	124	.....	.....	.....	229
Seville Village	93	86	179	58	87	.....	.....	.....	145	65	84	.....	.....	.....	151
Wadsworth	257	334	602	254	204	.....	33	.....	471	240	178	.....	34	.....	458
Westfield	114	122	261	101	118	.....	1	.....	231	96	110	.....	.....	.....	211
York	81	175	263	143	69	.....	4	.....	217	152	67	.....	1	.....	226
Totals	2192	3119	5349	2545	1933	.....	32	36	4569	2609	1781	.....	71	49	4539

SECRETARY OF STATE.

231

MEIGS COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Bedford	206	170	377	107	172	1	5	.....	.....	224	151	154	26	7	.....	338
Chester	140	224	364	151	136	3	5	.....	.....	296	207	135	4	3	.....	350
Columbia	115	125	246	99	119	.....	6	.....	.....	225	114	126	4	4	.....	250
Harrisonville	87	98	185	71	90	.....	7	.....	.....	169	82	84	16	5	.....	187
Lebanon	162	228	392	153	90	17	2	.....	.....	262	185	96	68	.....	.....	350
Letart	157	137	295	81	90	1	.....	.....	.....	172	117	124	2	2	.....	249
Middleport Precinct	79	117	197	42	17	44	.....	.....	.....	104	63	32	21	.....	.....	116
Middleport—																
1st Ward	57	114	172	83	38	27	.....	.....	.....	148	105	44	16	.....	.....	165
2d "	40	152	192	130	31	11	2	.....	.....	164	144	28	3	2	.....	177
3d "	43	133	178	118	43	14	.....	.....	.....	175	130	32	3	2	.....	167
4th "	31	66	98	57	16	14	1	.....	.....	89	62	13	6	2	.....	82
5th "	13	40	53	36	9	5	.....	.....	.....	52	44	14	.....	.....	.....	58
Minersville Precinct .....	.....	.....	.....	106	72	20	1	.....	.....	199	166	68	.....	.....	.....	235
Olive	161	212	374	123	102	.....	4	.....	.....	229	127	134	9	.....	.....	273
Orange	111	117	228	94	86	.....	2	.....	.....	182	108	97	.....	3	.....	209
Pomeroy Precinct	185	167	352	104	83	47	1	.....	.....	235	166	155	3	.....	.....	325
Pomeroy—																
1st Ward	44	138	185	112	40	13	3	.....	.....	168	139	45	.....	.....	.....	188
2d "	119	96	216	68	111	24	.....	.....	.....	207	94	112	.....	1	.....	203
3d "	218	286	505	211	179	45	3	.....	.....	437	294	207	5	2	.....	512
4th "	111	60	173	49	83	34	.....	.....	.....	166	72	90	12	.....	.....	175
Pageville Precinct	76	128	207	93	55	.....	27	.....	.....	175	75	50	33	31	.....	189
Rutland	133	453	590	390	117	1	6	.....	.....	514	430	121	2	19	.....	560
Racine Precinct	145	171	316	130	136	2	3	.....	.....	271	182	161	.....	.....	.....	346
Salem	145	245	390	210	133	.....	11	.....	.....	354	216	143	.....	13	.....	372
Syracuse Precinct	195	285	483	135	119	22	8	.....	.....	285	171	143	2	3	.....	319
Silver Run " .....	.....	.....	.....	42	11	1	.....	.....	.....	54	44	13	1	.....	.....	58
Totals	2773	3962	6768	2985	2178	350	97	.....	.....	5616	3678	2425	236	99	.....	6453

MERCER COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. R. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Black Creek.....	198	74	265	30	107	.....	.....	.....	137	43	116	.....	.....	160
Butler.....	198	70	268	46	126	.....	.....	.....	177	55	172	.....	.....	231
Center.....	160	138	298	103	130	.....	.....	.....	233	117	136	.....	.....	253
Dublin.....	249	139	388	78	170	.....	.....	.....	249	115	179	.....	.....	296
Franklin.....	143	39	182	20	76	.....	.....	.....	96	28	73	5	.....	106
Gibson.....	168	81	249	57	107	.....	.....	.....	164	68	142	.....	.....	211
Granville.....	255	44	299	21	157	.....	.....	.....	183	27	216	.....	.....	244
Hopewell.....	143	44	187	28	111	.....	.....	.....	139	36	105	.....	.....	143
Jederson.....	330	113	443	83	225	.....	.....	.....	368	93	338	.....	.....	431
Liberty.....	137	39	176	18	78	.....	.....	.....	98	19	80	.....	.....	99
Marion.....	346	47	393	27	196	.....	.....	.....	224	32	240	.....	.....	281
Recovery.....	215	34	249	24	135	.....	.....	.....	160	40	144	.....	.....	184
Union.....	134	207	346	134	86	.....	12	.....	233	133	93	.....	.....	287
Washington.....	174	59	233	36	112	.....	.....	.....	148	48	148	.....	.....	203
Totals.....	2840	1128	3996	708	1876	.....	12	.....	2960	860	2182	5	.....	3129

MIAMI COUNTY.

Townships and Wards.	President—1876.			Governor—1877.							Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David R. Paige.	Andrew Roy.	Jerome N. Robinson.			
Bethel	256	174	400	131	179	.....	.....	.....	314	131	161	.....	.....	294
Brown	266	148	414	131	225	.....	5	2	364	141	249	.....	18	409
Concord—																
1st Precinct	212	377	590	357	184	.....	8	1	554	378	178	27	3	587	
2d "	255	326	581	310	214	.....	2	.....	552	322	220	15	3	561
Elizabeth	156	141	299	116	132	.....	.....	.....	249	130	104	.....	.....	241
Lost Creek	156	213	369	189	150	.....	.....	.....	341	199	135	.....	.....	334
Monroe	251	356	610	312	229	.....	.....	.....	541	353	212	1	.....	587
Newton	173	382	560	271	154	.....	5	.....	429	265	115	.....	7	389
Newberry—																
East Precinct	308	349	660	271	265	.....	19	2	559	243	233	2	34	514	
West "	190	119	309	82	130	.....	1	.....	214	69	122	.....	.....	185
Spring Creek	225	182	410	139	202	.....	2	.....	343	145	214	3	.....	365
Stanton	141	212	353	166	117	.....	.....	.....	283	179	112	7	.....	209
Union	160	584	747	453	167	.....	5	.....	626	530	151	.....	8	695
Washington	132	140	290	107	87	.....	1	20	215	97	80	14	.....	194
Piqua—																
1st Ward	132	98	231	72	101	.....	1	11	185	97	92	3	2	194	
2d "	307	112	420	71	259	.....	1	7	389	99	232	1	2	356	
3d "	123	214	339	171	116	.....	4	10	302	210	98	11	5	324	
4th "	94	253	349	212	84	.....	2	10	308	226	84	3	.....	312
Totals	3509	4388	7931	3564	3015	.....	54	65	6718	3814	2834	87	93	6850	

MONROE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jer. N. Robinson.		
Adams	206	52	258	36	158	.....	.....	.....	194	41	179	.....	.....	225
Benton	157	34	192	30	100	.....	.....	.....	131	25	96	.....	.....	126
Bethel	148	96	246	65	101	.....	4	.....	171	73	101	.....	.....	174
Centre	411	119	531	110	386	.....	.....	.....	499	111	380	6	.....	499
Franklin	137	134	275	104	111	.....	.....	.....	216	102	83	31	.....	218
Green	202	40	242	29	161	.....	.....	.....	192	21	161	.....	.....	182
Jackson	207	60	267	12	116	.....	.....	.....	128	20	122	.....	.....	142
Lee	197	58	255	39	130	.....	.....	.....	169	39	143	.....	.....	187
Malaga	227	109	336	87	198	.....	.....	.....	286	86	177	1	.....	260
Ohio	213	157	370	116	140	.....	.....	.....	253	89	129	.....	.....	215
Perry	169	88	257	72	123	.....	.....	.....	202	74	125	.....	.....	200
Salem	297	170	468	115	212	.....	.....	.....	327	134	230	.....	.....	367
Seneca	196	62	258	55	191	.....	.....	.....	246	51	185	5	3	245
Summit	174	35	209	30	149	.....	.....	.....	187	38	131	1	.....	172
Sunbury	240	89	331	72	217	.....	.....	.....	289	78	214	.....	.....	292
Switzerland	179	59	238	30	112	.....	.....	.....	142	33	162	.....	.....	195
Washington	265	61	326	56	180	.....	.....	.....	246	34	181	39	.....	256
Wayne	180	39	219	28	142	.....	.....	.....	170	35	146	3	.....	187
Totals	3805	1462	5267	1092	2927	.....	4	.....	4033	1084	2947	86	3	4148

MONTGOMERY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Dayton—																
1st Ward	383	317	700	206	304	51	1		564	364	246	4	5		629	
2d "	255	527	782	325	211	24			563	372	112	4	2		491	
3d "	266	389	656							413	193	11	4		621	
" A				213	124	4			342							
" B				199	88	5			296							
4th "	318	269	589	292	166	4	19		483	103	334	3			441	
5th "	359	309	751							260	321	6			587	
" A				211	146	12	1		371							
" B				100	148	15	4		268							
6th "	463	503	968							212	309	10	4		535	
" A				160	186	46			392							
" B				207	196	53	2		461							
7th "	544	260	806							247	318	23	3		593	
" A				74	224	16			316							
" B				75	200	19			295							
" C				51	136	26	1		214							
8th "	468	262	736							291	231	18	2		543	
" A				106	144	9			261							
" B				94	320	17			433							
" C				60	144	10	1		215							
9th "	195	291	486	225	192	30	8		455	270	350	17	1		639	
10th "	18	174	362	104	95	8	7		214	142	171	1	2		315	
11th "	500	261	861							355	237	7	13		613	
" A				154	211	57	1		422							
" B				104	184	52			340							
12th "										161	268	10	1		440	
13th "										120	317	21	3		459	
14th "										309	371	29			708	
Butler	204	296	500	253	189	5	14		461	279	174	12	25		491	
Clay	351	312	663	252	315	5			573	279	335	5			620	
German	431	407	838	346	423	5	9		782	359	403	24	10		798	
Harrison	297	221	519	167	237	6	3	1	418	195	243	3	6		449	
Jackson	377	177	556	140	358	2	5		505	141	344	6	29		520	
Jefferson	1021	915	1936	691	926	25	1		1654	797	1174	16			2000	
Madison	299	148	447	113	237				352	148	267				416	
Mad River	251	197	448	159	180			6	347	169	188				358	
Miami	652	483	1135	428	637	20	3	2	1094	472	651	16	4		1144	
Perry	269	215	484	150	234	8	12		405	157	226	1	7		391	
Randolph	298	172	470	108	238	12			360	149	259	2			410	
Van Buren	282	193	476	161	245	1	6		415	191	265	2	1		459	
Washington	156	288	444	247	149	2			400	249	132	1	5		388	
Wayne	144	149	294	136	143		2		281	163	133				296	
Totals	8971	7921	16919	6311	7930	549	100	9	14952	7367	8572	254	127		16835	

MORGAN COUNTY.

Townships and W. rds.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Bloom	106	99	.....	84	94	.....	1	.....	179	85	103	.....	2	.....	190
Bristol	204	127	.....	120	194	.....	3	.....	317	124	199	2	3	.....	329
Center	175	95	.....	72	161	.....	.....	.....	234	79	159	.....	.....	.....	239
Deerfield	114	95	.....	67	117	.....	3	.....	277	97	114	1	3	.....	216
Homer	127	205	.....	209	114	.....	2	.....	326	244	117	.....	.....	1	364
Morgan	243	225	.....	230	234	.....	20	.....	474	216	253	.....	44	.....	514
Manchester	102	51	.....	39	92	.....	5	14	151	52	91	24	.....	.....	167
Malta	138	246	.....	215	118	.....	15	.....	349	230	117	.....	26	.....	367
Marion	100	332	.....	295	94	.....	41	.....	433	293	85	.....	40	.....	421
Meigsville	143	184	.....	106	149	.....	16	.....	271	115	150	.....	11	.....	277
Penn	51	199	.....	181	62	.....	11	.....	255	183	63	.....	16	.....	262
Union	181	175	.....	146	159	.....	9	.....	317	139	170	10	5	.....	323
Windsor	276	233	.....	208	252	.....	3	.....	464	214	268	3	1	.....	488
York	148	90	.....	83	141	.....	3	2	232	98	152	3	.....	.....	253
Totals	2108	2376	4591	2065	1981	.....	132	16	4209	2169	2041	43	146	.....	4410

MORROW COUNTY.

Townships and Wards.	President—1876.			Governor—1877.						Secretary of State—1878.				
	Samuel J. Tilden.	R. B. Hayes.	Total vote.	William H. West.	Richard M. Blahop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	Total vote.
Bennington	50	192	244	139	50	17	17	17	206	153	47	25	25	232
Canaan	123	121	251	88	115	20	20	20	223	85	104	26	9	224
Cardington	160	363	547	249	198	60	60	60	527	302	174	19	52	550
Chester	113	177	292	161	109	3	3	3	273	150	112	2	3	267
Congress	211	71	282	58	187	4	4	4	249	54	184	6	2	239
Franklin	163	93	258	70	158	2	2	2	230	81	154	1	2	239
Gilead	211	374	602	339	203	21	21	21	563	378	217	22	630	630
Harmony	116	57	177	56	117	3	3	3	176	52	110	18	1	182
Lincoln	76	141	220	110	66	11	11	11	187	132	66	4	7	208
North Bloomfield	157	130	290	103	130	5	5	5	238	121	124	6	234	234
Perry	194	146	247	33	182	1	12	12	228	37	146	33	1	217
Peru	64	133	207	90	71	25	25	25	186	66	69	3	23	189
South Bloomfield	110	166	292	125	80	41	6	6	261	143	94	16	46	299
Troy	89	79	168	71	82	1	1	1	154	77	73	3	153	153
Washington	87	145	232	127	75	5	5	5	207	137	74	1	4	216
Westfield	128	162	291	123	113	4	4	4	240	138	107	1	256	256
Totals	2046	2450	4600	1942	1945	242	19	19	4148	2126	1855	164	172	4338

MUSKINGUM COUNTY.

Townships and Wards.	President—1876.			Governor—1877.						Secretary of State—1878.				
	Samuel J. Tilden.	R. B. Hayes.	Total vote.	William H. West.	Richard M. Blahop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	Total vote.
Adams	105	55	160	62	98	160	160	160	160	53	81	1	134	134
Blue Rock	90	165	264	139	98	236	139	92	236	139	92	4	235	235
Brush Creek	149	128	277	111	141	3	255	92	127	35	127	35	254	254
Cass	120	80	200	70	97	3	170	70	99	3	171	171	171	171
Clay	99	97	196	83	88	6	177	91	84	11	189	189	189	189
Falls	169	192	361	167	160	10	338	185	169	7	362	362	362	362
Harrison	141	118	259	105	141	251	102	149	2	252	252	252	252	252
Highland	60	123	183	116	56	3	179	115	115	3	164	164	164	164
Hopewell	195	184	387	145	172	10	7	332	159	178	30	13	324	324
Jackson	162	168	335	138	153	4	10	303	118	149	20	2	229	229
Jefferson	141	149	290	140	139	4	283	137	118	8	263	263	263	263
Licking	91	133	225	102	103	3	216	122	96	7	223	223	223	223
Madison	88	135	226	108	82	9	199	112	69	3	14	14	14	14
Meigs	205	126	337	113	184	5	302	90	182	21	293	293	293	293
Monroe	105	115	221	90	89	2	1	180	103	109	2	1	206	206
Muskingum	132	103	236	99	116	5	920	107	129	2	229	229	229	229
Newton	250	260	510	215	234	6	7	461	231	217	18	5	470	470
Perry	170	74	246	48	147	2	3	200	48	139	26	213	213	213
Rich Hill	138	169	311	161	122	4	1	288	167	113	9	3	292	292
Salem	108	95	204	65	112	18	1	197	68	90	4	15	177	177
Salt Creek	123	125	251	102	112	5	2	221	115	108	5	2	231	231
Springfield	172	107	281	78	145	8	233	78	162	10	254	254	254	254
Union—														
Concord Precinct	64	113	181	106	50	2	1	168	126	56	3	185	185	185
Norwich	86	98	187	93	78	1	8	180	106	67	6	179	179	179
Washington	247	88	338	62	188	3	258	70	201	4	281	281	281	281
Wayne	197	154	353	128	158	1	6	293	114	165	10	220	220	220
Zanesville—														
1st Ward	122	223	345	167	110	1	5	284	189	103	7	1	299	299
2d "	264	206	472	140	226	21	388	139	257	16	413	413	413	413
3d "	268	185	454	144	273	12	430	157	240	29	438	438	438	438
4th "	200	148	349	114	210	16	343	149	179	19	347	347	347	347
5th "	257	248	508	190	217	28	438	218	238	33	465	465	465	465
6th "	213	140	394	97	195	58	351	146	184	57	388	388	388	388
7th "	113	201	315	160	105	1	25	291	202	95	16	1	315	315
8th "	270	191	463	162	257	1	2	452	195	250	34	1	464	464
9th "	134	296	439	265	129	14	410	251	126	31	410	410	410	410
Totals	5457	5232	10758	4292	4994	1	68	309	9687	4584	4828	495	60	9997

NOBLE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Beaver.....	206	157	363	153	217	.....	.....	.....	370	139	197	16	8	.....	260
Brookfield.....	93	135	229	121	94	.....	4	1	22	110	83	7	9	.....	209
Buffalo.....	108	72	180	67	89	.....	.....	.....	156	59	105	3	.....	.....	167
Caldwell.....	89	105	196	97	93	.....	.....	.....	156	101	89	12	.....	.....	202
Center.....	116	237	355	243	119	.....	.....	.....	368	223	95	31	.....	.....	349
Dexter.....	32	66	101	62	35	.....	.....	.....	98	70	30	6	.....	.....	106
Elk.....	223	110	333	90	183	.....	.....	.....	274	95	176	2	.....	.....	273
Enoch.....	197	67	264	68	178	.....	.....	.....	247	44	169	45	.....	.....	258
Jackson.....	133	114	247	100	127	.....	.....	.....	227	95	111	16	.....	.....	222
Jefferson.....	74	175	250	122	76	.....	.....	.....	198	94	51	34	.....	.....	179
Marion.....	49	255	323	231	64	.....	.....	.....	310	158	27	134	.....	.....	319
Noble.....	187	131	318	128	189	.....	.....	.....	318	94	152	38	6	.....	290
Olive.....	158	126	284	137	153	.....	.....	.....	280	127	143	12	.....	.....	282
Seneca.....	66	121	195	124	67	.....	.....	.....	192	93	69	43	.....	.....	205
Sharon.....	191	68	266	62	192	.....	.....	.....	256	54	185	9	1	.....	249
Stock.....	130	178	310	158	121	.....	.....	.....	280	89	104	72	.....	.....	265
Wayne.....	44	108	166	105	40	.....	.....	.....	151	74	22	47	.....	.....	143
Totals.....	2096	2225	4380	2058	2037	.....	4	1	4139	1719	1808	527	24	.....	4078

OTTAWA COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State— 1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.		
Bay	79	26	105	17	78	.....	.....	.....	95	12	79	4	.....	95
Benton	203	102	305	69	199	.....	.....	4	272	56	197	55	.....	309
Carroll	182	61	244	47	124	.....	.....	.....	231	22	180	66	.....	269
Catawba Island	42	74	116	35	34	.....	.....	.....	89	51	40	17	.....	108
Clay	409	312	721	164	311	.....	2	72	554	96	311	211	.....	617
Danbury	182	108	291	61	136	.....	.....	.....	243	71	164	3	.....	238
Erie	66	49	115	39	59	.....	.....	1	99	37	63	21	.....	121
Harris	288	218	507	189	274	.....	.....	4	469	125	261	110	.....	497
Portage	223	177	401	140	210	.....	5	.....	350	140	243	41	.....	424
Put-In-Bay—															
1st Precinct.....	50	110	161	80	42	.....	.....	.....	127	79	46	1	.....	127
2d “	14	21	35	18	13	.....	.....	1	33	17	6	8	.....	31
Salem	470	78	550	67	404	.....	.....	.....	471	33	395	51	.....	481
Totals	2208	1336	3551	946	1944	.....	7	82	3042	739	1985	588	.....	3317

ANNUAL REPORT.

PAULDING COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Auglaize	122	85	.....	39	104	.....	.....	17	160	92	93	3	.....	188
Benton	90	59	.....	30	60	.....	.....	.....	90	44	64	.....	.....	108
Blue Creek	23	61	.....	57	25	.....	.....	.....	82	55	26	.....	.....	81
Brown	123	174	.....	104	95	.....	.....	10	209	146	115	4	.....	265
Carroll	226	263	.....	217	199	.....	2	2	430	226	202	15	.....	443
Crane	81	141	.....	115	77	.....	.....	.....	90	131	96	.....	.....	227
Emerald	93	72	.....	46	54	.....	.....	50	130	37	63	38	.....	138
Harrison	40	68	.....	53	52	.....	.....	.....	90	66	47	.....	.....	113
Jackson	74	86	.....	31	55	.....	.....	2	122	84	87	2	.....	173
Lattv	68	46	.....	31	55	.....	.....	.....	84	34	63	.....	.....	97
Pandling	107	102	.....	92	107	.....	.....	1	200	109	104	5	.....	218
Washington	133	156	.....	121	119	.....	.....	.....	240	147	137	.....	.....	284
Totals	1180	1313	.....	973	924	.....	2	62	2021	1171	1097	67	.....	2335

PERRY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Bearfield	91	100	191	93	83	.....	.....	5	181	95	77	12	.....	184
Clayton	126	130	258	130	114	.....	.....	.....	244	146	118	2	.....	266
Coal	163	167	496	105	150	.....	217	474	135	185	317	.....	.....	637
Harrison	144	165	314	124	118	.....	1	10	254	151	113	12	.....	276
Hopewell	162	108	274	87	149	.....	24	260	74	143	44	.....	.....	261
Jackson	244	134	380	119	219	.....	2	342	137	222	8	.....	.....	373
Madison	68	100	168	92	63	.....	5	161	100	62	17	.....	.....	179
Monroe	120	109	229	101	100	.....	9	208	109	106	16	.....	.....	231
Monday Creek	170	101	271	25	141	.....	3	.....	230	122	176	3	.....	301
Pike	410	233	651	210	367	.....	1	6	558	230	406	22	.....	658
Pleasant	83	91	174	93	95	.....	2	190	93	85	11	.....	.....	189
Reading	450	329	783	215	371	.....	6	108	711	213	382	101	.....	702
Salt Lick	214	228	536	214	235	.....	2	130	581	217	221	245	.....	683
Thorn	365	89	456	95	316	.....	1	4	416	94	312	13	.....	419
Totals	2810	2084	5181	1763	2521	.....	14	519	4840	1916	2620	823	.....	5359

PICKAWAY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Circleville—																
1st Ward.....	174	75	.....	69	158	.....	.....	.....	.....	227	70	179	5	1	.....	255
2d ".....	311	259	.....	208	309	.....	.....	.....	.....	519	128	211	2	.....	.....	348
3d ".....	169	171	.....	144	172	.....	.....	.....	.....	320	169	173	13	.....	.....	352
4th ".....	113	75	.....	64	107	.....	.....	.....	.....	171	64	124	2	.....	.....	190
5th ".....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	106	124	13	.....	.....	244
Circleville.....	97	29	.....	26	84	.....	.....	.....	.....	110	22	90	1	.....	.....	315
Darby.....	171	901	.....	163	140	.....	.....	.....	.....	304	166	146	3	.....	.....	319
Deer Creek.....	189	164	.....	146	177	.....	.....	1	1	325	152	186	7	.....	.....	347
Harrison.....	210	125	.....	110	192	.....	.....	.....	.....	303	116	200	4	1	.....	320
Jackson.....	173	114	.....	83	137	.....	.....	4	.....	224	109	161	.....	.....	.....	273
Madison.....	160	34	.....	32	162	.....	.....	.....	.....	194	30	151	18	.....	.....	199
Monroe.....	177	909	.....	210	180	.....	.....	.....	.....	390	191	197	16	.....	.....	396
Muhlenburg.....	92	170	.....	149	75	.....	.....	.....	1	225	145	73	11	.....	.....	230
Perry.....	145	230	.....	203	131	.....	.....	.....	.....	336	210	151	1	.....	.....	349
Pickaway.....	900	142	.....	102	167	.....	.....	.....	1	271	120	184	.....	.....	.....	308
Salt Creek.....	216	175	.....	144	197	.....	.....	2	1	344	156	197	.....	.....	.....	354
Scioto.....	253	138	.....	109	231	.....	.....	.....	.....	341	122	234	.....	.....	.....	359
Walnut.....	201	156	.....	127	208	.....	.....	.....	.....	336	145	190	2	.....	.....	339
Washington.....	225	38	.....	25	220	.....	.....	.....	3	248	23	218	.....	.....	.....	241
Wayne.....	113	60	.....	42	90	.....	.....	.....	.....	136	53	111	3	.....	.....	169
Totals.....	3389	2565	5961	2156	3137	2	9	3	5324	2303	3304	97	2	.....	.....	5713

PIKE COUNTY.

Townships and Wards.	President—1876.			Governor—1877.							Secretary of State—1878.				
	Samuel J. Tilden.	R. B. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David B. Paige.	Andrew Roy.	Jere N. Robinson.	Total vote.	
Beaver	115	45	160	29	88	.....	.....	.....	117	36	102	5	.....	143
Benton	158	96	254	84	132	.....	.....	.....	217	90	154	2	.....	246
Camp Creek	116	66	182	52	80	.....	.....	.....	133	66	109	1	.....	176
Jackson	150	248	398	144	103	31	.....	.....	279	193	122	50	.....	374
Mifflin	205	54	259	41	170	.....	.....	.....	213	53	166	1	.....	240
Marion	97	85	183	85	93	.....	.....	.....	181	84	96	1	5	186
Newton	152	127	279	103	102	.....	4	.....	210	128	116	4	1	249
Pee Pee	384	161	545	120	344	.....	7	1	473	147	439	15	7	608
Pebble	158	166	324	116	156	.....	27	.....	300	134	168	4	24	330
Perry	96	78	174	73	53	.....	.....	.....	126	66	85	2	.....	153
Seal	142	174	316	142	120	.....	2	.....	265	166	141	8	.....	315
Scioto	69	89	158	75	55	.....	.....	.....	130	83	66	2	1	152
Sunfish	161	32	193	19	131	.....	2	.....	152	22	137	.....	.....	159
Union	93	44	137	42	84	.....	.....	.....	128	46	95	.....	.....	141
Totals	2096	1465	3562	1125	1711	31	42	1	2924	1314	2016	103	39	3472	

PORTAGE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Atwater	102	187	301	145	94	...	4	20	263	158	84	22	4	...	267	
Aurora	65	101	166	102	60	...	1	...	163	97	57	3	1	...	158	
Brimfield	175	80	255	69	165	...	...	3	237	77	175	4	...	...	256
Charlestown	49	126	175	113	46	...	...	1	160	110	46	8	...	...	164
Deerfield	78	186	265	148	65	...	3	3	220	176	57	4	5	...	242	
Edinburg	78	140	218	112	74	...	8	...	196	132	56	7	5	...	200	
Franklin	378	439	824	314	250	...	13	135	721	309	217	160	17	...	704	
Freedom	69	165	234	134	47	...	1	13	196	142	51	7	...	...	200
Garrettsville	75	173	257	135	77	...	15	2	231	159	67	2	6	...	235	
Hiram	136	177	313	141	147	...	1	...	299	155	149	1	...	...	305
Mantua	174	156	334	111	149	...	8	5	273	126	143	7	4	...	290	
Nelson	120	138	259	109	116	...	6	...	231	106	90	8	4	...	211	
Palmyra	125	110	237	83	130	...	...	1	214	89	126	1	1	...	224
Paris	53	123	175	113	42	...	...	2	158	118	46	1	1	...	168
Randolph	182	234	419	211	158	...	2	...	374	213	148	...	5	...	366	
Ravenna	456	521	981	422	353	...	6	78	862	475	338	120	9	...	942	
Rootstown	135	176	311	148	115	...	1	5	270	150	114	7	3	...	274	
Shalersville	133	113	246	96	118	...	...	8	222	99	99	28	...	...	226
Streetsboro	88	103	191	87	96	...	...	4	189	81	95	9	4	...	199
Suffield	256	94	350	82	228	...	...	...	320	80	217	...	...	...	297
Windham	79	170	251	156	75	...	8	...	241	169	76	2	4	...	251	
Totals	3006	3712	6767	3031	2624	...	69	287	6030	3221	2451	408	73	...	6159	

PREBLE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.			
Dixon	97	158	255	129	110	...	1	...	241	144	121	...	4	...	269	
Gasper	101	101	203	76	87	...	...	...	163	94	84	1	...	...	181
Gratia	166	295	474	190	143	11	76	...	418	219	137	...	71	...	429	
Harrison	307	312	621	261	280	...	12	...	555	255	279	...	35	...	557	
Israel	81	314	398	236	67	...	13	...	308	254	80	...	12	...	348	
Jackson	134	203	340	176	107	...	6	...	289	173	136	...	3	...	313	
Jefferson	224	261	493	208	195	...	43	...	447	224	214	...	50	...	491	
Lanier	252	154	406	134	223	...	1	...	357	134	219	...	8	...	360	
Monroe	196	188	404	145	182	...	37	...	368	166	193	3	48	...	410	
Somers	163	367	547	318	185	...	6	...	511	330	189	2	7	...	530	
Twin	335	149	484	125	302	...	...	...	430	127	286	...	...	...	422
Washington	495	502	1009	473	375	...	2	...	953	475	465	24	6	...	975	
Totals	2551	3004	5636	2461	2356	11	197	...	5040	2595	2396	31	244	...	5285	

PUTNAM COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jerre N. Robinson.		
Blanchard	270	115	385	89	209	.....	.....	.....	307	70	227	3	.....	.....	301
Greensburg	134	56	191	29	97	.....	.....	.....	126	33	86	1	.....	.....	120
Jackson	161	40	201	19	113	.....	.....	.....	133	23	110	.....	.....	.....	133
Jennings	202	82	290	48	179	.....	.....	.....	228	67	169	.....	.....	.....	235
Liberty	224	114	338	88	178	.....	.....	.....	266	71	162	10	.....	.....	245
Monroe	64	63	127	41	55	.....	2	.....	98	90	28	21	.....	.....	69
Monterey	202	97	320	8	147	.....	.....	.....	158	3	160	.....	.....	.....	163
Ottawa—															
East Precinct	316	117	436	90	294	.....	11	1	396	85	279	31	.....	.....	395
West "	253	6	261	9	220	.....	.....	1	233	8	216	.....	.....	.....	227
Palmer	126	40	166	96	88	.....	2	.....	119	11	93	4	.....	.....	109
Perry	81	96	175	55	63	.....	.....	.....	119	58	86	.....	.....	.....	144
Pleasant	334	333	667	270	300	.....	11	.....	561	290	305	3	.....	.....	569
Riley	152	93	247	76	122	.....	.....	.....	200	68	122	5	.....	.....	195
Sugar Creek	111	152	263	143	98	.....	.....	.....	241	151	99	.....	.....	.....	250
Union	165	104	270	89	134	1	1	.....	221	90	142	.....	.....	.....	232
Van Buren—															
North Precinct.....	185	60	246	40	156	.....	.....	.....	195	21	130	33	.....	.....	187
South "	194	102	296	63	161	.....	.....	.....	225	38	134	51	.....	.....	224
Totals.....	3174	1606	4789	1183	2614	1	27	2	3849	1110	2548	162	.....	.....	3828

RICHLAND COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere. N. Robinson.			
Blooming Grove.....	188	112	304	72	184	.....	5	.....	269	72	174	.....	2	.....	248
Butler	75	113	188	92	77	.....	1	.....	170	93	70	.....	1	.....	164
Cass	181	201	384	175	170	.....	.....	1	347	177	166	.....	.....	.....	343
Franklin	169	64	233	42	155	.....	.....	.....	197	42	135	.....	.....	.....	177
Jackson	152	66	218	58	149	.....	.....	.....	207	54	128	.....	.....	.....	182
Jefferson	301	300	603	246	295	.....	13	.....	556	214	260	11	12	.....	497
Madison	241	184	427	150	221	.....	4	.....	377	149	209	4	2	.....	364
Mifflin	168	64	232	47	140	.....	2	.....	188	44	95	1	.....	.....	140
Monroe	259	152	411	138	234	.....	.....	.....	372	123	236	.....	.....	.....	359
Perry	96	71	167	53	93	.....	.....	1	147	50	66	2	.....	.....	118
Plymouth—																
North Precinct.....	112	158	271	134	104	.....	4	.....	243	116	96	.....	10	.....	222
South "	77	69	146	65	71	.....	.....	.....	136	55	62	1	.....	.....	118
Sandusky	101	50	151	39	67	.....	.....	2	108	36	79	.....	.....	.....	115
Sharon	310	398	708	364	16	.....	4	.....	687	354	274	.....	4	.....	632
Springfield	191	180	372	146	185	.....	4	4	339	141	145	15	1	.....	302
Troy	174	161	335	137	173	.....	1	1	312	142	146	.....	.....	.....	289
Washington	200	173	373	145	192	.....	.....	.....	338	144	177	.....	1	.....	322
Weller	116	142	268	120	111	.....	18	.....	249	109	88	.....	23	.....	220
Worthington	299	131	430	108	288	.....	.....	.....	397	93	248	16	1	.....	358
Mansfield—																
1st Ward.....	107	210	317	105	103	.....	2	.....	301	267	150	1	4	.....	420
2d "	298	317	615	275	287	.....	.....	.....	572	187	200	7	9	.....	463
3d "	276	164	441	142	260	.....	.....	1	407	131	286	.....	.....	.....	387
4th "	316	169	486	148	312	.....	5	.....	465	135	320	3	7	.....	465
Totals.....	4407	3649	8075	3091	4187	.....	63	10	7384	2928	3840	61	77	.....	6907

ROSS COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Buckskin	231	296	528	251	221	.....	.....	.....	476	281	203	2	.....	.....	478
Colerain	219	174	393	172	200	.....	.....	5	377	195	200	5	.....	.....	401
Concord	301	426	730	351	282	.....	3	.....	638	394	292	22	.....	.....	708
Deerfield	143	188	333	156	136	.....	.....	.....	294	163	130	3	.....	.....	296
Franklin	102	117	219	89	91	.....	.....	.....	180	108	102	4	.....	.....	214
Greene	233	213	446	202	221	.....	.....	.....	423	261	211	2	.....	.....	416
Harrison	158	104	263	91	137	.....	.....	.....	228	99	123	2	.....	.....	224
Huntington	205	182	477	140	277	.....	.....	.....	424	162	278	21	.....	.....	460
Jefferson	120	96	218	86	108	.....	.....	.....	194	99	121	.....	.....	.....	220
Liberty	243	144	387	94	195	.....	5	.....	296	128	204	4	.....	.....	317
Palut	116	120	237	74	67	.....	.....	.....	142	92	99	.....	.....	.....	192
Paxton	210	196	411	157	191	.....	.....	.....	348	209	212	1	.....	.....	422
Scioto—															
East Precinct	97	101	199	100	100	.....	1	.....	201	96	84	14	.....	.....	194
West "	90	80	171	68	73	.....	.....	.....	142	70	83	9	.....	.....	163
Springfield—															
East Precinct	103	76	180	54	88	.....	.....	.....	142	58	78	2	.....	.....	139
West Precinct	77	94	101	40	77	.....	.....	.....	116	26	101	.....	.....	.....	127
Twin	252	229	543	226	197	.....	19	.....	443	254	181	71	.....	.....	507
Union—															
North Precinct	38	73	111	57	42	.....	.....	.....	99	54	46	.....	.....	.....	100
South "	217	271	488	196	196	.....	3	.....	395	224	207	18	.....	.....	447
Chillicothe—															
1st Ward	402	314	718	252	401	14	9	.....	678	312	385	39	.....	.....	739
2d "	158	259	422	245	157	2	1	.....	410	274	150	8	.....	.....	433
3d "	360	179	543	147	371	1	1	.....	530	190	342	10	.....	.....	547
4th "	266	255	532	197	256	14	16	.....	488	226	238	55	.....	.....	523
Totals	4431	4177	8657	3445	4064	31	3	60	7664	3915	4070	292	.....	.....	8297

SANDUSKY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere N. Robinson.	
Ballville	236	227	463	187	219	...	1	407	140	217	107	...	465	
Bellevue Precinct	74	91	165	72	71	...	...	146	80	46	38	...	164	
Green Creek	300	423	723	355	237	...	4	99	695	335	195	232	16	779
Jackson	159	187	346	128	121	...	...	...	249	134	150	46	...	331
Madison	202	160	362	111	201	...	8	331	109	177	110	...	306	
Rice	146	57	203	123	208	...	...	...	327	36	131	17	...	185
Riley	246	131	377	39	134	...	...	...	178	66	205	56	5	333
Sandusky	216	153	371	126	193	...	...	...	321	76	152	141	...	369
Scott	170	153	323	104	159	...	2	265	106	173	33	...	...	314
Townsend	162	170	332	112	131	...	1	1	247	108	142	35	9	296
Washington	349	194	543	163	325	...	...	...	490	129	325	85	...	541
Woodville	262	101	362	78	255	...	...	...	333	42	237	67	...	346
York	126	232	362	169	87	...	6	22	284	138	78	79	7	303
Fremont—														
1st Ward	121	290	412	245	121	...	4	374	115	49	60	...	...	225
2d "	306	187	194	156	326	...	...	...	423	42	121	152	...	315
3d "	201	102	303	78	197	...	...	...	275	46	166	95	1	308
4th "	...	...	...	...	...	...	...	...	...	133	124	118	2	377
Stem Town Precinct	54	113	167	74	52	...	2	128	77	30	33	...	...	140
Totals	3330	3032	6400	2390	3037	...	11	139	5633	1912	2718	1504	40	6187

SCIOTO COUNTY.

Townships and Wards.	President—1876.			Governor—1877						Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. R. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David R. Paige.	Andrew Roy.	Jerre N. Robinson.		
Bloom	130	238	374	129	133	.....	.....	.....	263	183	123	.....	7	.....	337
Brush Creek	255	97	353	74	212	.....	.....	.....	228	78	217	.....	.....	.....	295
Clay	140	137	277	101	120	.....	.....	.....	222	137	128	.....	.....	.....	265
Green	121	216	402	174	164	.....	1	.....	339	183	168	1	2	.....	355
Harrison	113	166	279	126	93	1	.....	.....	220	132	100	.....	.....	.....	253
Jefferson	94	55	151	35	77	.....	.....	.....	113	58	101	.....	.....	.....	159
Madison	155	208	364	138	128	.....	3	.....	210	184	142	1	.....	.....	327
Morgan	59	137	196	116	56	.....	.....	.....	172	145	59	.....	.....	.....	304
Nile—															
Upper Precinct	84	108	192	89	78	.....	.....	.....	167	106	83	.....	.....	.....	180
Lower "	102	69	171	63	99	.....	.....	.....	162	87	88	.....	.....	.....	175
Porter	211	237	449	185	206	3	.....	.....	396	225	210	.....	.....	.....	441
Rush	89	65	165	69	96	.....	.....	.....	168	66	94	.....	.....	.....	160
Union	120	29	146	17	107	.....	.....	.....	125	35	192	.....	.....	.....	227
Valley	78	88	166	68	78	.....	.....	.....	146	85	100	.....	.....	.....	186
Vernon	169	135	304	94	154	.....	.....	.....	249	101	129	.....	.....	.....	232
Washington	97	148	246	127	105	.....	.....	.....	233	145	91	2	.....	.....	239
Portsmouth—															
1st Ward	239	107	347	82	236	.....	.....	.....	318	129	212	.....	.....	.....	332
2d "	152	273	426	210	164	2	.....	.....	360	271	156	.....	.....	.....	422
3d "	153	179	332	155	166	.....	.....	.....	321	171	150	.....	.....	.....	321
4th "	130	170	300	141	144	.....	.....	.....	286	177	139	.....	.....	.....	317
5th "	144	239	404	204	161	.....	1	.....	367	234	150	.....	.....	.....	366
6th "	120	238	360	213	127	.....	.....	.....	345	236	141	.....	.....	.....	378
Totals	3025	3359	6397	2610	2904	6	5	.....	5550	3179	2973	26	9	.....	6206

SENECA COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Earnea.		David R. Paige.	Andrew Roy.	Jer. N. Robinson.		
Adams	145	113	258	92	118	.....	.....	.....	219	90	111	25	.....	226
Green Spring Precinct...	40	82	122	67	35	.....	.....	.....	105	78	48	9	.....	135
Big Spring	314	74	388	56	261	.....	.....	.....	318	71	324	5	.....	394
Bloom	214	251	500	205	228	.....	.....	.....	446	230	215	26	.....	399
Clinton	267	180	447	134	207	2	.....	.....	2	344	150	199	25	375
Eden	190	191	384	187	172	.....	.....	.....	365	189	168	42	.....	401
Hopewell	242	124	268	89	166	.....	.....	.....	219	124	193	6	.....	323
Jackson	124	194	318	152	130	.....	.....	.....	273	191	118	10	.....	319
Liberty	199	250	449	196	181	.....	.....	.....	389	191	185	51	.....	427
London	206	82	290	62	166	.....	.....	.....	219	66	218	2	.....	286
Postoria Precinct	232	448	697	321	219	.....	64	.....	603	409	241	48	.....	706
Pleasant	132	169	321	123	131	.....	.....	.....	255	149	147	4	.....	300
Reed	161	188	350	142	131	.....	.....	.....	277	143	137	50	.....	329
Scipio	202	265	473	232	199	.....	2	.....	438	233	202	40	.....	477
Seneca	208	149	257	113	165	.....	.....	.....	279	129	205	9	.....	347
Thompson	297	88	385	79	278	.....	.....	.....	357	93	292	11	.....	396
Venice	295	203	501	157	266	.....	6	.....	431	192	275	14	.....	461
Tiffin—															
1st Ward	184	170	354	140	178	.....	.....	.....	321	134	161	35	.....	330
2d "	178	126	307	113	171	.....	.....	.....	296	110	172	47	.....	349
3d "	205	181	388	137	193	.....	.....	.....	338	147	207	36	.....	369
4th "	194	151	345	128	150	.....	.....	.....	291	133	159	28	.....	322
5th "	236	114	350	94	199	1	2	.....	297	93	233	21	.....	349
Totals	4515	3793	8351	3009	3945	3	84	26	7120	3315	4210	544	.....	8044

ANNUAL REPORT.

SHELBY COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. H. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen J. Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	John N. Robinson.	
Clinton	485	480	.....	415	496	...	1	1	921	433	468	41	.....	942
Cynthian	279	178	.....	53	213	.....	2	2	268	48	210	8	.....	266
Dinsmore	328	126	.....	82	257	.....	4	4	345	89	216	14	.....	319
Franklin	144	96	.....	74	130	.....	...	...	203	85	120	4	.....	209
Greene	188	116	.....	84	160	.....	1	1	246	93	144	26	1	264
Jackson	245	115	.....	76	192	.....	...	...	272	94	175	11	.....	280
Laramie	203	101	.....	83	196	.....	2	...	328	83	168	17	.....	268
McLean	113	15	.....	15	234	.....	...	...	250	10	242	...	.....	252
Orange	111	120	.....	90	100	.....	...	...	192	77	74	35	...	146
Perry	141	159	.....	140	121	.....	...	...	262	141	102	18	.....	261
Salem	176	193	.....	166	139	.....	...	...	305	175	145	5	.....	325
Tuttle Creek	173	158	.....	132	88	.....	13	233	120	87	41	1	.....	249
Van Buren	204	103	.....	81	137	.....	...	...	220	67	114	10	.....	191
Washington	121	125	.....	74	81	.....	9	19	177	99	75	33	3	210
Totals	3141	1985	5126	1565	2544	.....	12	35	4222	1614	2340	263	5	4222

STARK COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. H. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen J. Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	John N. Robinson.	
Bethlehem	346	163	512	133	308	.....	1	1	442	117	246	9	10	353
Canton	262	211	501	169	232	.....	1	27	430	209	198	13	.....	419
Jackson	265	136	401	132	208	.....	6	328	110	152	34	.....	.....	297
Lake	321	152	473	130	307	.....	1	1	440	127	284	.....	.....	411
Lawrence	432	461	915	411	426	.....	16	31	879	269	248	136	.....	653
Fulton Precinct .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	89	43	48	4	184
Lexington—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Alliance Precinct	416	750	1242	417	500	.....	33	327	1084	.....	.....	130	2	369
North Alliance Prec't .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	393	152	111	16	668
South .....	.....	.....	.....	.....	.....	.....	80	22	146	65	95	33	8	132
Linnville Precinct	44	116	175	85	39	.....	12	11	401	205	175	14	14	410
Marlboro	264	253	464	190	190	.....	12	11	569	178	358	6	8	547
Nimshillen	415	264	680	180	361	.....	12	11	569	178	358	6	8	547
Osnaburg—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Osnaburg Precinct	179	142	323	128	174	.....	.....	.....	302	124	150	1	.....	275
Mapleton "	60	137	197	121	52	.....	.....	2	175	122	40	.....	.....	162
Paris—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mineva Precinct	133	152	286	133	118	.....	1	4	256	139	107	1	1	248
Paris	222	88	310	83	216	.....	1	1	300	71	191	2	.....	265
Perry—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Massillon Precinct	204	119	323	105	160	.....	17	283	122	122	129	30	.....	272
Richville "	113	42	155	37	88	.....	6	131	40	105	2	.....	.....	147
Pike	101	246	347	203	92	.....	2	297	209	209	83	9	.....	303
Plain	349	190	539	179	317	.....	11	506	180	268	7	.....	.....	455
Sandy	95	197	292	165	91	.....	2	1	260	200	87	.....	.....	287
Sugar Creek	204	295	501	298	167	.....	3	.....	435	268	167	3	.....	440
Tuscarawas	363	292	598	249	244	.....	44	5	511	229	227	75	.....	531
Washington	220	245	468	196	206	.....	6	19	434	213	166	11	3	393
Canton—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1st Ward	358	371	735	202	311	.....	2	155	673	274	292	116	.....	675
2d "	238	302	542	237	190	.....	2	58	488	329	193	40	1	563
3d "	216	143	360	115	211	.....	20	350	145	184	24	.....	.....	354
4th "	372	205	581	148	322	.....	64	536	304	310	64	.....	.....	581
Massillon—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1st Ward	155	200	357	156	142	.....	15	314	189	130	7	.....	.....	306
2d "	156	172	328	131	127	.....	18	276	144	120	16	.....	.....	284
3d "	224	279	503	221	198	.....	21	454	259	210	36	.....	.....	475
4th "	159	67	227	55	137	.....	8	200	76	114	11	.....	.....	200
Totals	6772	6410	13335	4919	5943	.....	111	903	11920	5455	5255	969	69	11729

SUMMIT COUNTY.

Townships and Wards.	President— 1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Akron—															
1st Ward	235	441	655	295	210	...	16	41	569	303	271	35	10	698	
2d "	200	366	572	285	155	...	9	37	516	283	209	31	7	536	
3d "	215	283	507	187	208	...	2	47	448	225	213	48	9	498	
4th "	334	218	566	120	273	...	13	104	510	174	255	98	17	584	
5th "	300	227	431	133	166	...	4	88	394	176	160	69	5	411	
6th "	53	222	279	162	50	...	2	48	263	152	95	30	7	264	
Bath	56	223	280	179	48	...	4	...	233	161	41	1	4	209	
Boston	131	174	313	113	90	...	...	27	230	133	79	59	...	272
Copley	114	193	304	124	95	...	9	5	237	125	100	6	4	236	
Coventry	274	154	435	96	184	...	...	43	326	93	176	59	2	331
Cuyahoga Falls	121	318	441	246	134	...	1	17	398	321	93	23	...	447	
Franklin	220	168	448	112	216	...	...	31	361	107	211	51	10	353
Greene	218	202	422	161	188	...	12	7	368	152	142	18	17	341	
Hudson	136	263	406	235	132	...	3	2	373	235	96	16	9	390	
Northfield	109	177	286	146	83	...	...	...	229	141	103	8	...	252
Northampton	126	102	221	65	22	...	...	29	177	72	76	48	...	197
Norton	234	171	405	114	181	...	...	36	332	117	184	69	...	370
Portage	212	200	416	117	201	...	7	25	352	162	121	41	8	394	
Richfield	33	249	284	179	30	...	...	...	215	200	31	...	...	246
Springfield	271	271	492	146	258	...	7	44	456	164	232	38	7	442	
Stowe	100	142	244	110	90	...	1	4	205	106	85	2	3	196	
Tallmadge	74	259	336	204	65	...	5	13	287	214	50	11	1	277	
Twinsburg	75	117	193	101	79	...	...	1	182	102	77	3	1	184
Totals	3204	5055	8952	3630	3248	...	95	649	7661	3923	3200	763	121	8108	

TRUMBULL COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jere N. Robinson.		
Bazetta	81	145	.....	94	76	.....	.....	3	113	79	78	3	.....	162
Courtland Precinct	23	115	.....	86	34	.....	17	2	139	88	31	5	4	128
Bloomfield	48	134	.....	124	32	.....	.....	.....	156	116	43	.....	.....	161
Braceville	67	181	.....	142	61	.....	5	.....	208	121	48	4	5	178
Bristol	74	239	.....	201	70	.....	2	.....	275	212	61	2	3	278
Brookfield	155	209	.....	151	135	.....	.....	8	295	116	93	124	1	334
Champion	106	125	.....	93	110	.....	.....	.....	202	11	95	24	1	201
Farmington	50	221	.....	198	58	.....	3	3	266	194	58	7	6	265
Fowler	55	181	.....	153	45	3	.....	.....	201	122	42	.....	.....	174
Greene	48	153	.....	155	33	.....	.....	.....	198	148	39	9	8	206
Gustavus	34	216	.....	175	24	.....	19	.....	218	155	26	10	13	204
Hartford	75	267	.....	167	65	.....	1	1	234	161	61	14	1	237
Orangeville Precinct	19	39	.....	35	18	.....	.....	.....	53	32	11	1	.....	43
Howland	69	120	.....	112	63	.....	.....	.....	170	102	51	8	.....	156
Hubbard	257	214	.....	167	243	.....	2	67	479	135	168	112	4	440
Coleburg Precinct	55	118	.....	82	48	.....	1	36	167	74	36	42	3	155
Johnson	80	142	.....	100	73	.....	6	.....	170	87	55	14	3	159
Kinsman	51	219	.....	177	29	.....	.....	.....	215	126	39	22	3	190
Liberty	139	225	.....	125	89	.....	16	130	360	70	75	128	10	286
Girard Precinct	109	154	.....	83	81	.....	1	16	181	104	63	3	4	176
Lorainville	132	11	.....	64	122	.....	.....	.....	166	51	104	.....	.....	157
Mecca	63	190	.....	156	60	.....	7	1	224	154	59	3	9	226
Mesopotamia	28	201	.....	160	30	.....	2	.....	183	139	24	.....	.....	170
Newton	165	214	.....	182	161	.....	1	.....	344	166	152	3	3	324
Southington	86	140	.....	114	77	.....	1	.....	194	103	70	1	.....	175
Veron	112	226	.....	141	48	.....	1	.....	189	110	37	48	4	197
Vienna	61	187	.....	162	84	.....	5	72	323	145	66	78	8	299
Wethersfield	272	509	.....	324	186	.....	3	85	604	277	115	86	3	481
Mineral Ridge Precinct	60	218	.....	120	41	.....	7	34	262	159	32	81	.....	272
Warren	143	132	.....	90	127	.....	.....	.....	217	79	97	2	.....	180
Warren—															
1st Ward	74	297	.....	263	73	.....	4	2	348	272	46	3	4	310
2d "	165	261	.....	207	144	.....	.....	11	365	209	131	10	4	355
3d "	72	120	.....	100	54	.....	.....	7	164	102	46	10	.....	158
Totals	3030	6133	9163	4763	2584	.....	123	478	7973	4299	2152	852	109	7437

TUSCARAWAS COUNTY.

Townships and Wards.	President—1876.			Governor—1877.							Secretary of State—1878.						
	Samuel J. Tilden.	R. B. Hayes.	Total vote.	William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Total vote.	Milton Barnes.	David R. Paige.	Andrew Roy.	Jerre N. Robinson.	Total vote.			
Auburn.....	201	61	262	57	173	.....	.....	.....	230	49	176	1	.....	226
Bucks.....	210	12	222	14	170	.....	.....	.....	184	9	185	.....	.....	190
Clay.....	134	131	265	122	130	.....	.....	.....	253	105	111	.....	.....	216
Dover.....	543	315	858	276	495	.....	.....	.....	801	192	407	132	5	741
Fairfield.....	79	69	149	60	56	.....	.....	27	143	61	53	23	1	134	
Franklin.....	158	92	250	81	144	.....	.....	3	228	73	135	.....	.....	208
Goshen.....	488	554	1042	491	483	4	9	1002	466	461	81	.....	.....	1012	
Jefferson.....	231	43	274	41	197	.....	.....	.....	232	39	182	7	.....	228
Lawrence.....	179	166	345	139	154	.....	.....	3	297	123	144	32	2	302	
Mill.....	257	571	828	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Christiansville Precinct.....	.....	.....	.....	412	218	48	3	655	416	149	117	.....	.....	665
Dennison.....	204	151	355	65	129	70	.....	.....	264	61	104	105	.....	274
Oxford.....	229	203	432	181	203	13	.....	.....	397	164	169	36	.....	369
Perry.....	129	110	239	73	110	.....	.....	.....	183	71	107	6	.....	184
Rush.....	83	132	215	102	73	.....	.....	.....	176	115	55	4	.....	174
Salem.....	266	180	446	121	215	4	3	345	128	199	24	.....	.....	352	
Sandy.....	139	147	286	114	115	.....	.....	.....	230	98	91	29	.....	219
Sugar Creek.....	241	56	297	58	211	.....	.....	.....	277	47	231	7	.....	287
Union.....	25	130	155	84	29	4	.....	.....	117	96	28	4	.....	126
Warren.....	89	100	189	85	84	.....	.....	.....	173	72	66	36	.....	174
Warwick.....	151	159	310	127	130	.....	.....	.....	259	124	109	22	.....	256
Washington.....	143	83	226	55	131	.....	.....	.....	186	69	134	6	.....	209
Wayne.....	197	57	254	55	176	.....	1	9	243	51	153	7	.....	212	
York.....	161	62	223	45	136	.....	.....	.....	161	48	129	5	.....	183
Totals.....	4545	3574	8119	2538	3959	143	1	95	7092	2677	3578	687	8	6972			

UNION COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jerre N. Robinson.			
Allen	91	223	.....	182	73	.....	2	.....	257	186	52	.....	.....	1	240
Claybourne	237	436	.....	365	222	.....	.....	.....	612	290	157	.....	67	.....	516
Darby	147	139	.....	140	144	.....	.....	.....	271	123	125	.....	1	.....	249
Dover	119	78	.....	78	115	.....	3	.....	198	93	109	.....	.....	.....	203
Jackson	132	144	.....	126	122	.....	.....	.....	248	111	126	.....	7	.....	245
Jerome	139	263	.....	198	121	.....	5	.....	304	166	94	.....	20	.....	280
Leesburg	143	177	.....	166	128	.....	.....	.....	303	164	113	5	.....	.....	282
Liberty	130	198	.....	184	130	.....	6	1	322	117	112	.....	5	.....	234
Mill Creek	143	46	.....	33	112	.....	.....	.....	149	23	91	.....	20	.....	136
Paris	395	418	.....	386	403	.....	30	1	812	423	317	.....	22	.....	760
Taylor	124	164	.....	144	98	.....	.....	.....	248	135	74	.....	17	.....	240
Union	130	264	.....	177	106	.....	.....	.....	283	200	113	.....	4	.....	317
Washington	59	176	.....	133	52	.....	.....	.....	192	150	36	.....	2	.....	188
York	90	273	.....	248	89	.....	.....	.....	341	195	69	.....	9	.....	274
Totals	2072	2930	5036	2530	1924	.....	61	2	4540	2436	1500	5	184	.....	4227

VAN WERT COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Harrison	199	85	284	73	175	...	...	...	251	71	188	...	...	...	259
Hoagland	123	102	225	82	112	...	...	...	196	92	113	...	...	...	205
Jennings	84	135	219	137	73	...	...	...	213	127	56	...	...	...	140
Jackson	71	60	131	40	70	...	...	...	110	50	79	...	...	...	129
Liberty	148	127	276	112	137	...	...	...	289	128	149	...	...	...	279
Pleasant	160	158	318	158	140	...	...	...	298	168	132	...	...	...	301
Van Wert—																
1st Ward	74	159	233	127	81	...	...	...	207	130	80	...	...	...	212
2d "	82	101	183	92	83	...	...	...	178	86	72	...	...	...	158
3d "	77	154	231	143	73	...	...	...	217	143	76	...	...	...	220
4th Ward	187	156	343	153	133	...	...	...	320	152	112	...	...	...	264
Ridge	158	189	347	171	142	...	...	...	312	186	137	...	...	...	327
Tully	237	108	345	80	214	...	...	...	294	93	217	...	...	...	349
Union	137	64	201	55	124	...	...	...	181	72	124	...	...	...	196
Willshire	166	292	375	145	134	...	...	...	392	184	169	...	...	...	353
Washington	401	180	581	108	297	...	...	...	688	481	355	45	6	...	549
Middleport Precinct	104	104	208	89	91	...	...	...	184	98	96	...	...	...	194
York	69	206	263	193	60	...	...	...	255	193	59	5	...	...	257
Totals	2410	2290	4708	1958	2139	...	11	81	4207	2116	2214	52	6	...	4397	

VINTON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.		
Brown.....	153	96	251	69	122	.....	.....	.....	192	87	119	.....	.....	.....	215
Clinton.....	171	158	331	116	177	.....	.....	.....	289	125	162	.....	.....	.....	293
Eagle.....	109	65	175	53	106	.....	.....	.....	161	62	126	.....	.....	.....	188
Elk.....	211	224	435	207	197	.....	.....	.....	405	217	190	.....	.....	.....	408
Harrison.....	122	78	203	66	113	.....	.....	.....	181	79	118	.....	.....	.....	197
Jackson.....	124	151	278	119	107	.....	.....	.....	228	122	121	.....	.....	.....	250
Knox.....	73	95	168	65	89	.....	.....	.....	153	89	84	.....	.....	.....	176
Madison.....	254	170	424	129	217	.....	.....	.....	378	179	237	.....	.....	.....	418
Richland.....	232	132	368	98	230	.....	.....	.....	318	116	199	.....	.....	.....	315
Swan.....	72	152	223	132	66	.....	.....	.....	205	148	67	.....	.....	.....	215
Vinton.....	148	34	183	19	143	.....	.....	.....	163	38	157	.....	.....	.....	196
Wilkesville.....	148	188	346	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
East Precinct.....	.....	.....	.....	114	30	.....	.....	.....	145	130	40	.....	.....	.....	168
West ".....	.....	.....	.....	63	132	.....	.....	.....	197	52	169	.....	.....	.....	228
Totals.....	1817	1533	3375	1250	1749	.....	9	1	3025	1450	1795	17	.....	.....	3267

WARREN COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Clear Creek—																
Ridgeville Precinct	145	118	264	100	125	.....	.....	.....	226	105	128	.....	.....	.....	.....	233
Springboro "	157	258	415	243	136	.....	23	.....	372	247	155	.....	.....	.....	.....	404
Deerfield	262	221	480	146	215	.....	.....	3	401	230	234	1	.....	.....	.....	466
Franklin	333	521	861	433	287	.....	8	.....	729	459	329	1	11	.....	.....	795
Hamilton	515	368	583	273	142	.....	2	.....	419	328	202	.....	.....	.....	.....	533
Harlan	281	240	512	194	236	.....	1	.....	432	191	240	.....	.....	.....	.....	431
Massie	48	357	404	260	40	.....	16	.....	317	300	46	.....	.....	.....	1	347
Salem	224	257	492	206	204	.....	1	.....	412	218	201	.....	.....	5	.....	425
Turtle Creek	443	952	1396	804	318	1	5	7	1141	870	377	4	1	.....	1255	.....
Union	120	154	274	133	100	.....	2	.....	236	159	101	.....	.....	.....	.....	260
Washington	120	219	339	100	91	.....	1	.....	214	204	104	.....	.....	.....	.....	308
Wayne	212	479	693	394	193	.....	10	.....	601	487	205	.....	.....	.....	.....	698
Totals	2559	4164	6713	3396	2087	3	67	11	5562	3798	2322	6	18	.....	6155	.....

WASHINGTON COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote. ¹
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Adams	219	163	382	121	191	...	...	...	314	162	183	11	...	...	356
Aurelius	59	144	207	...	...	...	...	...	...	...	...	...	...	...	103
Maackaburgh Precinct .....	...	...	...	36	17	...	18	...	71	31	11	32	...	...	74
Elba Precinct .....	...	...	...	48	30	...	5	...	83	45	34	24	...	...	103
Barlow	84	193	277	182	85	...	...	...	267	185	79	2	...	...	296
Belpro	126	134	265	114	106	...	2	...	225	107	91	10	1	...	210	
Belpro Village	127	171	301	155	108	...	8	...	273	135	59	63	11	...	268	
Decatur	121	191	312	138	93	...	...	...	231	139	105	15	1	...	260
Dunham	105	76	181	55	87	...	1	...	143	57	100	4	2	...	163	
Fairfield	106	45	151	34	111	...	...	...	146	40	98	1	1	...	240
Fearing	183	163	346	82	167	...	...	...	242	83	173	3	...	...	259
Grandview	372	134	511	81	281	...	1	...	367	91	316	4	1	...	412	
Harmar Village	109	215	326	189	115	...	1	...	310	217	110	...	...	...	347
Independence	270	44	317	38	203	...	2	...	244	38	199	3	1	...	351	
Lawrence—																
Upper Precinct	177	126	303	102	134	...	...	...	237	100	138	2	...	...	240
Lower "	57	83	143	61	62	...	4	...	131	63	70	6	4	...	177	
Liberty	155	189	344	138	121	...	...	...	260	130	124	23	...	...	233
L. Muskingum Precinct	140	210	353	155	133	...	9	...	299	141	80	2	3	...	226	
Ludlow	218	44	262	46	197	...	...	...	245	43	173	17	...	...	233
Muskingum	116	107	223	82	100	...	...	...	143	120	126	...	...	...	247
Newport	240	225	472	172	211	...	8	...	393	152	215	31	10	...	408	
Palmer	37	91	128	70	39	...	...	...	111	81	31	10	...	...	122
Salem	183	176	359	151	170	...	...	...	323	153	168	...	2	...	323
Union	162	52	214	35	147	...	...	...	186	...	...	...	...	...	...
Warren	194	146	344	107	185	...	...	...	292	122	189	25	...	...	336
Waterford	174	276	451	218	173	...	10	...	401	221	139	67	4	...	431	
Watertown	184	143	327	125	170	...	4	...	299	95	187	92	...	...	374
Wesley	58	259	317	231	62	...	7	...	302	240	58	1	1	...	308	
Fultonberg .....	...	...	...	...	...	...	...	...	...	52	53	7	...	...	112
Marietta—																
1st Ward	191	206	398	149	212	...	...	...	365	186	212	2	...	...	400
2d "	148	253	401	211	163	...	...	...	381	240	165	1	...	...	406
3d "	176	154	330	136	180	...	1	...	319	157	175	1	2	...	335	
Totals	4492	4361	8855	3464	4053	54	27	7643	3626	3861	460	44	...	...	7992

WAYNE COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere. N. Robinson.	
Baughman—														
First Precinct.....	73	138	.....	100	57	.....	2	.....	159	110	67	6	.....	184
Second ".....	67	102	.....	81	56	.....	1	.....	138	83	54	4	.....	142
Third ".....	137	115	.....	100	134	.....	1	.....	235	114	122	1	.....	237
Canaan—														
First Precinct.....	194	198	.....	151	167	.....	6	1	324	165	176	4	.....	346
Second ".....	56	144	.....	120	35	.....	6	.....	181	135	41	4	.....	181
Chester.....	228	246	.....	203	218	.....	5	.....	424	223	219	1	1	445
Chippewa.....	371	230	.....	211	325	.....	18	.....	556	222	337	61	.....	623
Clifton.....	251	212	.....	172	238	.....	3	.....	414	209	218	5	.....	433
Congress—														
First Precinct.....	166	194	.....	164	164	.....	2	2	336	168	158	3	2	335
Second ".....	106	98	.....	83	107	.....	7	.....	199	93	114	7	.....	216
East Union.....	285	182	.....	154	253	.....	5	.....	413	173	243	4	.....	420
Franklin.....	193	123	.....	106	166	.....	2	.....	294	122	195	1	.....	319
Greene—														
First Precinct.....	192	201	.....	121	106	.....	13	.....	241	140	101	21	.....	262
Second ".....	201	127	.....	107	164	.....	2	.....	273	128	179	2	.....	310
Milton.....	220	134	.....	80	184	.....	1	.....	266	92	189	2	2	285
Paint.....	232	51	.....	49	222	.....	.....	.....	271	59	209	1	.....	273
Plain.....	197	265	.....	208	156	.....	3	.....	367	243	167	6	.....	416
Salt Creek.....	199	183	.....	159	165	.....	.....	.....	325	166	185	.....	.....	373
Sugar Creek.....	256	195	.....	165	216	.....	.....	.....	381	189	221	1	.....	412
Wayne.....	240	188	.....	141	211	.....	28	.....	381	160	195	30	.....	386
Wooster.....	153	119	.....	111	138	.....	7	.....	257	122	131	4	.....	257
Wooster—														
1st Ward.....	235	142	.....	112	212	.....	27	.....	351	135	234	18	.....	384
2d ".....	177	264	.....	193	147	.....	27	.....	371	246	166	15	.....	431
3d ".....	149	102	.....	84	143	.....	23	.....	250	115	152	15	.....	292
4th ".....	90	75	.....	68	90	.....	26	.....	184	76	92	14	.....	184
Totals.....	4598	4009	8641	3243	4114	.....	30	188	7595	3708	4165	230	5	8136

WILLIAMS COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.					Total vote.	Secretary of State—1878.				Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.		Milton Barnes.	David R. Paige.	Andrew Roy.	Jere. N. Robinson.	
Brady.....	142	308	.....	275	134	.....	.....	.....	409	265	120	.....	.....	393
Bridgewater.....	154	161	.....	143	121	.....	.....	.....	266	131	98	45	.....	274
Centre.....	203	164	.....	142	172	.....	.....	.....	314	162	169	9	.....	341
Florence.....	225	202	.....	190	255	.....	.....	.....	445	185	253	8	.....	447
Jefferson.....	197	137	.....	116	174	.....	.....	.....	290	115	169	90	.....	304
Madison.....	183	228	.....	196	188	.....	1	.....	385	192	179	11	.....	385
Mill Creek.....	121	106	.....	78	99	.....	.....	.....	178	73	111	4	.....	189
Northwest.....	138	220	.....	161	111	.....	1	.....	274	107	120	93	.....	322
Pulaski.....	477	519	.....	460	462	.....	7	.....	929	496	428	7	.....	937
St. Joseph.....	250	193	.....	176	222	.....	.....	.....	398	166	252	1	.....	419
Superior.....	205	211	.....	210	193	.....	.....	.....	403	192	175	55	.....	417
Springfield.....	191	232	.....	181	174	.....	5	.....	360	185	206	11	.....	402
Totals.....	2546	2701	5249	2330	2307	.....	13	1	4651	2269	2280	369	5	4830

WOOD COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Samuel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jerr. N. Robinson.			
Bloom	196	223	420	155	140	.....	.....	.....	296	204	177	4	.....	.....	386
Center	114	306	420	211	98	.....	1	.....	332	232	111	90	4	.....	457
Freedom	195	145	341	116	188	.....	.....	.....	305	114	187	29	.....	.....	330
Henry	207	149	357	93	134	.....	8	.....	238	121	169	21	.....	.....	313
Jackson	92	98	190	60	57	.....	5	1	123	60	58	24	1	.....	142
Lake—																
Milbury Precinct	171	115	286	68	116	.....	.....	1	186	54	100	57	.....	.....	211
Walbridge "	74	101	175	64	44	.....	.....	.....	113	49	65	41	.....	.....	155
Liberty	180	188	311	111	76	.....	1	.....	188	165	93	10	.....	.....	271
Middletown	176	191	368	136	131	.....	.....	.....	290	121	168	69	.....	.....	330
Milton	264	205	475	142	206	.....	8	.....	360	120	209	68	4	.....	491
Montgomery	206	252	458	204	124	.....	.....	.....	394	222	199	32	3	.....	492
Perry	104	221	326	144	93	.....	10	.....	247	187	100	25	1	.....	315
Perryburg	457	437	896	256	357	.....	2	40	660	195	347	185	.....	.....	727
Plain	113	340	453	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
East Precinct .....	.....	.....	.....	192	90	.....	.....	.....	.....	.....	213	85	26	.....	325
West " .....	.....	.....	.....	48	13	.....	.....	.....	62	70	13	34	.....	.....	117
Portage	219	180	300	119	82	.....	.....	.....	201	149	111	13	.....	.....	274
Ross	30	77	116	27	19	.....	.....	11	57	39	33	15	.....	.....	88
Troy	225	70	297	62	162	.....	.....	.....	224	67	198	24	.....	.....	269
Washington	87	216	326	142	78	.....	.....	4	226	141	63	70	.....	.....	273
Water	20	175	262	114	64	.....	24	.....	202	131	86	36	12	.....	266
Weston—																
Grand Rapids Prec't. ..	78	163	242	108	60	.....	5	.....	174	105	59	40	1	.....	204
Weston "	98	207	308	119	100	.....	6	8	235	114	59	126	1	.....	302
Totals	3245	4079	7355	2719	2512	.....	70	69	5395	2931	2690	1041	27	.....	6663

WYANDOT COUNTY.

Townships and Wards.	President—1876.		Total vote.	Governor—1877.						Total vote.	Secretary of State—1878.					Total vote.
	Sammel J. Tilden.	R. B. Hayes.		William H. West.	Richard M. Bishop.	Lewis H. Bond.	Henry A. Thompson.	Stephen Johnson.	Milton Barnes.		David R. Paige.	Andrew Roy.	Jesse N. Robinson.			
Antrim	65	76	.....	66	66	.....	.....	.....	132	63	52	.....	.....	.....	115
Crane	164	146	.....	123	166	.....	.....	.....	294	142	157	.....	.....	.....	299
Crawford	208	252	.....	193	203	.....	1	.....	399	263	223	.....	.....	.....	488
Eden	139	104	.....	83	107	.....	.....	.....	190	92	90	.....	.....	.....	199
Jackson	97	54	.....	41	93	.....	.....	.....	134	50	98	.....	.....	.....	146
Kirby Precinct	180	47	.....	41	157	.....	.....	.....	201	45	171	.....	.....	.....	216
Marseilles	76	109	.....	102	69	.....	.....	.....	171	117	71	.....	.....	.....	188
Mifflin	135	115	.....	92	104	.....	.....	.....	198	97	102	.....	1	.....	202
Nevada Precinct	211	227	.....	209	194	.....	4	.....	404	234	205	.....	.....	.....	441
Pitt	170	117	.....	106	159	.....	.....	.....	269	114	151	.....	.....	.....	266
Richland	182	112	.....	86	164	.....	8	.....	259	92	154	.....	.....	.....	245
Ridge	77	62	.....	35	74	.....	.....	.....	109	40	58	.....	.....	.....	99
Salem	176	79	.....	58	143	.....	.....	.....	203	37	144	.....	.....	.....	181
Sycamore	79	163	.....	124	64	.....	2	1	191	145	66	.....	1	11	223
Tymochtee	217	154	.....	126	175	.....	.....	.....	301	129	186	.....	.....	.....	315
Upper Sandusky—																
1st Ward	210	105	.....	81	229	.....	3	.....	316	86	233	.....	.....	.....	281
2d Ward	233	157	.....	153	238	.....	.....	.....	392	155	278	.....	.....	.....	436
Totals	2619	2079	4701	1732	2405	.....	18	1	4167	1927	2448	2	12	.....	4382

EDUCATIONAL STATISTICS.

EDUCATIONAL STATISTICS.

ESTIMATE OF RECEIPTS AND DISBURSEMENTS OF STATE COMMON SCHOOL FUND, FOR FISCAL YEAR, 1879. *

Receipts.

Balance in Treasury November 15, 1878.....	\$89,209 87
From taxes on duplicate of 1878.....	1,520,552 00
Total estimated receipts for School Fund	\$1,609,761 87

Disbursements.

For support of common schools, estimate being based upon the distribution of one dollar and fifty cents per capita for each enumerated school youth (1,041,963) between the ages of six and twenty-one years..... \$1,562,944 50

TABLE SHOWING THE ADDITIONS TO THE PRINCIPAL, THE DISBURSEMENTS OF INTEREST, AND THE INTEREST DUE IN 1879, UPON THE SEVERAL ITEMS OF THE IRREDUCIBLE STATE DEBT, CONSISTING OF THE SCHOOL AND OTHER TRUST FUNDS. *

Name of fund.	Amount paid into the State Treasury November 15, 1877.	Net amount of principal paid in or accrued during the year ending Nov. 15, 1878.	Total amount paid in, and balance remaining to the credit of each Nov. 15, 1878.	Interest accruing and disbursed during the year ending Nov. 15, 1878.	Interest due and payable after January 1, 1879.
Section 16, School Fund	\$3,019,343 44	\$23,350 75	\$3,042,724 19	\$160,517 55	\$182,131 29
Section 29, Ministerial Fund.....	114,048 18	900 40	114,942 58	6,820 70	6,824 42
Virginia Military School Fund.....	181,524 29	477 60	182,001 89	12,050 31	11,771 54
United States Military School Fund.	120,272 12	.....	120,272 12	7,216 33	7,216 33
Western Reserve School Fund.....	257,429 21	.....	257,429 21	15,445 75	15,445 75
Ohio University Fund	2,700 73	.....	2,700 73	.....	b 486 12
O. State Univ. F'd (O. A. and M. Col.)	501,592 56	.....	506,413 06	.....	.....
Franklin County Ag. Col. Bonds ...	} 34,500 00	} 4,820 50	} 34,500 00	} a 27,468 45	} 32,842 00 c 13,775 81
Totals	\$4,231,404 53	\$29,579 25	\$4,260,983 78	\$249,539 09	\$270,553 26

* From Annual Report of Auditor of State.

a This amount includes \$5,711.45 of interest that had accrued prior to January 1, 1878.

b Interest on Ohio University Fund was not paid in 1877 or 1878, not having been called for.

c This sum (\$13,775.81) is subject to draft if drawn prior to January 1, 1879; so much as is not then drawn will be added to the principal of the Endowment Fund.

TABLE SHOWING THE AMOUNT OF TAX LEVIED IN EACH COUNTY OF OHIO FOR THE SUPPORT OF STATE COMMON SCHOOLS FOR THE YEAR 1878.*

Counties.	State Com- mon School Fund, 1 mill.	Counties.	State Com- mon School Fund, 1 mill.
Adams	\$5,804 87	Licking	\$26,563 95
Allen	10,461 09	Logan	13,666 82
Ashtabula	13,110 80	Lorain	17,680 19
Ashland	15,370 33	Lucas	23,939 79
Athens	7,396 54	Madison	14,384 44
Auglaize	7,623 57	Mahoning	18,997 20
Belmont	20,995 74	Marion	13,156 02
Brown	11,021 40	Medina	13,034 80
Butler	33,044 79	Meigs	8,810 95
Carroll	8,989 84	Mercer	4,456 37
Champaign	20,593 52	Miami	21,543 94
Clarke	27,130 45	Monroe	5,621 13
Clermont	14,559 74	Montgomery	44,579 09
Clinton	14,155 40	Morgan	8,137 73
Columbiana	22,886 80	Morrow	12,414 16
Coshocton	13,926 92	Muskingum	25,633 37
Crawford	15,468 94	Noble	6,241 89
Cuyahoga	88,655 16	Ottawa	5,553 57
Darke	18,498 42	Paulding	2,419 05
Defiance	5,933 06	Perry	8,646 96
Delaware	16,507 88	Pickaway	19,367 71
Erie	11,413 62	Pike	5,390 83
Fairfield	18,297 67	Portage	16,209 21
Fayette	13,497 96	Preble	17,793 61
Franklin	50,661 13	Putnam	5,815 56
Fulton	5,334 38	Richland	21,906 10
Gallia	7,601 70	Ross	21,679 54
Geauga	8,023 96	Sandusky	13,025 31
Greene	22,472 07	Scioto	10,752 09
Guernsey	10,677 18	Seneca	18,605 95
Hamilton	211,574 93	Shelby	9,776 16
Hancock	12,379 83	Stark	32,851 00
Hardin	9,241 84	Summit	22,420 34
Harrison	13,080 32	Trumbull	19,751 49
Henry	4,587 18	Tuscarawas	16,892 92
Highland	15,313 28	Union	10,520 86
Hocking	5,711 97	Van Wert	6,221 02
Holmes	8,390 33	Vinton	3,922 15
Huron	17,785 78	Warren	21,410 32
Jackson	4,761 08	Washington	12,748 73
Jefferson	19,995 81	Wayne	23,307 18
Knox	16,554 79	Williams	7,769 93
Lake	10,092 70	Wood	9,642 63
Lawrence	8,431 20	Wyandot	10,741 07
Total			\$1,551,583 97

*From annual report of Auditor of State.

TABLE SHOWING THE AMOUNT OF TOWNSHIP AND SUB-DISTRICT SCHOOL, SCHOOL-HOUSE, AND ALL TAXES FOR SCHOOL PURPOSES, ASSESSED ON THE GRAND DUPLICATE BY TOWNS, TOWNSHIP, AND SUB-DISTRICT AUTHORITY FOR THE YEAR 1878.

Counties.	Amount.	Counties.	Amount.
Adams	\$27,914 33	Licking	\$71,708 82
Allen	51,355 98	Logan	46,484 64
Ashland	42,405 21	Lorain	67,505 11
Ashtabula	52,506 87	Lucas	140,720 23
Athens	29,222 63	Madison	46,279 55
Auglaize	26,008 73	Mahoning	54,592 28
Belmont	67,902 93	Marion	42,379 21
Brown	35,026 12	Medina	35,209 16
Butler	94,549 27	Meigs	34,877 10
Carroll	10,002 04	Mercer	25,997 92
Champaign	64,454 40	Miami	82,072 76
Clarke	93,779 00	Monroe	27,588 88
Clermont	66,653 55	Montgomery	169,208 42
Clinton	49,356 03	Morgan	30,940 41
Columbiana	68,469 03	Morrow	32,155 98
Coshocton	38,235 69	Muskingum	71,570 56
Crawford	51,827 16	Noble	26,575 37
Cuyahoga	361,407 92	Ottawa	32,363 83
Darke	65,906 78	Paulding	17,650 69
Defiance	32,311 40	Perry	37,520 80
Delaware	39,619 56	Pickaway	61,055 68
Erie	62,502 22	Pike	28,454 23
Fairfield	69,437 15	Portage	51,514 89
Fayette	57,446 18	Preble	50,921 30
Franklin	182,525 67	Putnam	30,475 10
Fulton	25,052 73	Richland	71,420 94
Gallia	25,369 78	Ross	69,253 76
Geauga	23,462 23	Sandusky	51,020 46
Greene	61,958 56	Scioto	56,312 28
Guernsey	49,282 40	Seneca	67,646 94
Hamilton	727,715 92	Shelby	32,208 12
Hancock	46,853 88	Stark	101,214 15
Hardin	41,202 27	Summit	89,779 63
Harrison	30,012 92	Trumbull	65,522 69
Henry	26,994 38	Tuscarawas	68,426 11
Highland	53,872 26	Union	44,367 51
Hocking	23,236 31	Van Wert	33,878 53
Holmes	27,638 48	Vinton	17,221 17
Huron	53,705 03	Warren	54,848 93
Jackson	20,374 94	Washington	52,715 48
Jefferson	54,060 74	Wayne	65,994 19
Knox	43,437 80	Williams	31,474 33
Lake	31,421 00	Wood	49,845 73
Lawrence	42,124 09	Wyandot	45,963 53
Totals			\$5,546,656 52

SUMMARY.

State tax for 1878 for State Common School Fund	\$1,551,583 97
Local taxes on Grand Duplicate for 1878 for schools and school-houses.....	5,546,656 52
Total	\$7,098,240 49

Table showing the payments of the State Common School Fund to counties, as compared with receipts, and exhibiting excess of payments or receipts, for fiscal year ending November 15, 1878; also, the enumeration of youth between six and twenty-one years of age, taken in the month of September, 1876, being the basis upon which the State Common School Fund is to be distributed in 1879.*

Counties.	Payments to counties.	Received from counties.	Excess of payments to counties.	Excess of receipts from counties.	No. of youth between 6 and 21 years.
Adams	\$12,354 00	\$5,893 16	\$6,460 84	.....	8,258
Allen	15,715 00	10,302 97	5,412 03	.....	10,228
Ashland	11,170 50	12,968 11	.....	\$1,797 61	7,461
Ashtabula	15,769 50	16,046 30	.....	276 80	10,309
Athens	13,723 50	7,339 82	6,383 68	.....	9,062
Anglaize	13,000 00	7,702 51	5,297 49	.....	9,371
Belmont	24,390 00	20,927 20	3,462 80	.....	16,379
Brown	16,968 00	11,168 84	5,799 16	.....	11,391
Butler	23,202 00	32,944 12	.....	9,742 12	15,481
Carroll	8,362 50	8,948 36	.....	585 86	5,524
Champaign	13,288 50	20,653 89	.....	7,365 39	8,962
Clarke	17,719 50	26,899 51	.....	9,180 01	12,081
Clermont	18,127 50	14,264 72	3,862 78	.....	11,916
Clinton	12,213 00	14,036 31	.....	1,823 31	8,270
Columbiana	21,485 50	22,797 29	.....	1,311 79	14,673
Coshocton	13,230 00	12,930 32	299 68	.....	8,936
Crawford	14,461 50	15,221 10	.....	759 60	9,591
Cuyahoga	84,612 00	88,248 64	.....	3,636 64	56,665
Darke	19,599 00	18,586 15	1,312 85	.....	13,175
Defiance	10,693 50	5,773 81	4,919 69	.....	7,144
Delaware	12,624 00	16,215 70	.....	3,591 70	8,514
Erie	18,255 00	11,500 64	6,754 36	.....	12,657
Fairfield	17,454 00	17,894 88	.....	440 88	11,520
Fayette	9,679 50	13,662 09	.....	3,982 58	6,329
Franklin	37,995 00	49,543 11	.....	11,548 11	25,059
Fulton	10,327 50	5,194 66	5,132 84	.....	7,116
Gallia	14,997 00	7,651 55	7,345 45	.....	9,935
Geauga	5,487 50	8,040 99	.....	2,553 49	3,659
Greene	14,152 50	22,374 15	.....	8,221 65	9,492
Guernsey	13,914 00	10,316 19	3,597 81	.....	9,218
Hamilton	153,868 50	213,479 30	.....	59,610 80	110,503
Hancock	13,617 00	12,316 77	1,300 23	.....	9,293
Hardin	13,518 00	8,608 60	4,909 40	.....	9,283
Harrison	9,996 00	12,925 70	.....	2,929 70	6,753
Henry	10,786 50	4,328 81	6,457 69	.....	7,330
Highland	15,355 50	14,219 27	1,136 23	.....	10,228
Hocking	9,919 50	5,644 49	4,405 01	.....	6,753
Holmes	10,440 00	8,184 02	2,255 98	.....	7,125
Huron	16,045 50	17,818 54	.....	1,773 04	10,617
Jackson	12,226 50	4,835 14	7,391 36	.....	8,245
Jefferson	17,085 00	19,105 76	.....	2,020 76	11,591
Knox	12,309 00	16,680 61	.....	4,371 61	8,300
Lake	7,507 50	10,286 20	.....	2,778 70	5,135
Lawrence	19,585 50	8,232 93	11,352 57	.....	13,204
Licking	20,386 50	26,102 19	.....	5,715 69	13,445
Logan	12,667 50	13,763 15	.....	1,095 65	8,372
Lorain	16,158 00	17,987 25	.....	1,829 25	10,722
Lucas	29,895 00	21,993 46	7,901 54	.....	21,409
Madison	9,390 00	14,506 41	.....	5,116 41	6,333

TABLE SHOWING THE PAYMENTS OF THE STATE COMMON SCHOOL FUND—Continued.

Counties.	Payments to counties.	Received from counties.	Excess of payments to counties.	Excess of receipts from counties.	No. of youth between 6 and 21 years.
Mahoning	19,068 00	18,419 85	648 15	.....	12,912
Marion	9,603 00	13,197 16	.....	3,594 16	6,512
Medina	9,618 00	12,977 09	.....	3,359 09	6,436
Meigs	17,343 00	8,775 81	8,567 19	.....	11,444
Mercer	11,299 50	4,519 58	6,779 92	.....	7,591
Miami	18,319 50	21,526 89	.....	3,207 39	11,859
Monroe	14,883 00	5,784 80	9,097 20	.....	9,852
Montgomery	33,415 50	45,152 02	.....	11,736 52	22,517
Morgan	10,224 00	8,193 16	2,030 84	.....	6,920
Morrow	9,201 50	12,384 59	.....	3,187 09	6,067
Muskingum	24,426 00	25,006 17	.....	1,480 17	16,277
Noble	10,936 50	6,243 28	4,703 22	.....	7,531
Ottawa	9,508 50	5,182 56	4,325 94	.....	6,368
Paulding	6,535 50	2,142 34	4,393 16	.....	4,486
Perry	12,402 00	8,645 97	3,756 03	.....	8,834
Pickaway	13,651 50	19,376 69	.....	5,725 19	9,541
Pike	9,370 50	5,128 44	4,242 06	.....	6,382
Portage	11,553 50	16,248 54	.....	4,695 04	7,810
Preble	11,676 00	17,769 27	.....	6,093 27	7,911
Putnam	12,376 50	5,718 73	6,657 77	.....	8,365
Richland	17,115 00	21,974 56	.....	4,859 56	11,274
Ross	19,626 00	21,722 71	.....	2,096 71	13,371
Sandusky	15,093 00	13,219 51	1,873 49	.....	9,858
Scioto	17,962 50	10,841 36	7,121 14	.....	11,584
Seneca	18,246 00	18,238 30	7 70	.....	12,161
Shelby	12,544 50	9,738 65	2,805 85	.....	8,276
Stark	30,796 50	13,951 01	16,845 49	.....	20,606
Summit	18,961 50	22,117 58	.....	3,156 08	12,908
Tumbull	20,565 00	20,059 27	505 73	.....	14,065
Tuscarawas	19,969 50	16,573 47	3,396 03	.....	13,403
Union	10,552 50	10,419 41	133 09	.....	7,063
Van Wert	11,829 00	5,988 33	5,840 67	.....	8,059
Vinton	9,087 00	3,962 67	5,124 33	.....	6,029
Warren	13,680 00	21,692 36	.....	8,012 36	8,955
Washington	22,899 00	12,901 86	9,997 14	.....	15,301
Wayne	20,317 50	23,208 89	.....	2,891 39	13,642
Williams	11,940 00	7,606 36	4,333 64	.....	7,883
Wood	16,825 50	9,573 08	7,252 42	.....	11,219
Wyandot	10,869 00	10,346 39	522 61	.....	7,468
Totals	\$1,540,348 50	\$1,524,389 39	\$234,112 28	\$218,153 17	1,041,963

*From Auditor of State's Report.

TABLE SHOWING THE AGGREGATE NET AMOUNT OF DEBTS OF ALL SEPARATE SCHOOL DISTRICTS IN THE STATE, AS REPORTED TO THE AUDITOR OF STATE.

Counties.	Debts of school districts.	Counties.	Debts of school districts.
Adams		Licking	
Allen	\$45,000 00	Logan	\$41,539 08
Ashland	2,200 00	Lorain	35,900 00
Ashtabula		Lucas	
Athens		Madison	
Auglaize	44,400 00	Mahoning	13,700 00
Belmont	28,854 02	Marion	4,749 08
Brown		Medina	1,000 00
Butler	43,183 01	Meigs	4,150 00
Carroll		Mercer	
Champaign	77,150 00	Miami	6,845 00
Clarke	31,000 00	Monroe	
Clermont	6,352 30	Montgomery	3,034 70
Clinton		Morgan	
Columbiana	35,800 00	Morrow	9,300 00
Coshocton	7,000 00	Muskingum	2,742 00
Crawford	12,350 00	Noble	2,600 00
Cuyahoga		Ottawa	16,800 00
Darke	38,850 00	Paulding	14,278 00
Defiance	13,365 62	Perry	11,658 55
Delaware	3,600 00	Pickaway	
Erie	49,344 00	Pike	
Fairfield	17,278 37	Portage	11,700 00
Fayette		Preble	3,358 00
Franklin	3,339 62	Putnam	1,000 00
Fulton	10,000 00	Richland	11,050 00
Gallia		Ross	
Geauga	78,160 00	Sandusky	8,200 00
Greene	3,688 74	Scioto	49,400 00
Guernsey	31,500 00	Seneca	1,400 00
Hamilton	6,203 32	Shelby	
Hancock	2,900 00	Stark	62,128 43
Hardin		Summit	23,561 00
Harrison	1,850 00	Trumbull	9,100 00
Henry	25,000 00	Tuscarawas	58,381 20
Highland	34,295 15	Union	26,233 42
Hocking		Van Wert	13,000 00
Holmes		Vinton	
Huron		Warren	3,000 00
Jackson		Washington	16,789 60
Jefferson	6,386 34	Wayne	27,313 82
Knox		Williams	9,000 00
Lake		Wood	20,700 00
Lawrence	1,700 00	Wyandot	4,075 77
Total			\$1,158,098 14

MATTERS RELATING TO OHIO SCHOOLS.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY J. J. BURNS,
Commissioner of Common Schools.

In social arithmetic, if we give the soil and climate, navigable waters, and beds of minerals, and then demand what kind of *homes* the country will afford, we shall ask an *indeterminate* problem. Some essential *conditions* are not given. Among these conditions should be classed not only the educational standing of the people as a whole, and the school system or code of laws written and unwritten, but the actual status of the schools as a result. The chief duty of a generation of men is to properly train up the succeeding generation, even as it is the chief duty and a heaven-born inclination of parents to properly train their children. And if it were not for this duty, acted upon till it is part of man's moral nature, it would be hardly worth while to undertake any great labors, to give place to any wearing anxieties. But, while life is short, society is long. Men may come and men may go, but society remains forever—an edifice whose foundations were laid when it was found not good for man to be alone. Each generation adds a story, solid and beautiful, polished in the similitude of a palace; or unsteady and shapeless, daubed with untempered mortar.

I have simply hinted at a social problem and shall not try to solve it, nor even to name all its conditions. In the limits of this paper I shall aim to outline the school system of Ohio, and give some statistics as a sort of index of the practical workings of the schools.

To carry any system into operation, whether political, religious, or what not, a division of territory into manageable units is necessary. For school purposes these units are called districts, and are styled city districts, village districts, special districts and townships. The city districts are usually divided into smaller divisions corresponding to the wards, and the townships are divided into sub-districts. Each of these districts is under the control of a board of education, which is made a body corporate, and with duties defined by statute. The board is the

proper trustee of the school buildings. By it land is purchased, houses built, a school tax levied, pupils assigned, and numerous other duties performed. Teachers are employed by the board, except that in the case of township districts, they are selected by the local directors of the respective sub-districts.

The following are some items relative to this branch of the subject :

Number of districts in the State.....	1,998
“ sub-districts in townships.....	10,769
“ school-houses in township districts.....	10,791
“ “ other districts.....	1,188
“ school-houses erected within the year.....	481
Cost of school-houses erected within the year.....	\$943,822
Estimated value of school-houses including grounds.....	\$21,329,864
Number of teachers necessary to supply the schools.....	16,092
“ different teachers actually employed.....	23,391
Average number of weeks schools were in session.....	35
Number of pupils enrolled in the schools.....	740,194
Average number in daily attendance.....	465,372
Number of youth of school age in the State.....	1,041,963

One who peruses the history of the early days in Ohio, is struck with the earnestness with which the fathers began to carry out that famous provision, that since “religion, morality, and knowledge are essentially necessary to good government and the happiness of mankind, schools and the means of education shall forever be encouraged.” It was, doubtless, their intention to so endow the schools that they should be absolutely *free* schools, but bad management on the part of those in charge of the public lands, and in many cases the real worthlessness of the lands themselves, defeated this intention. Taxes for school purposes are the result, the first mention of which in Ohio statutes is found in the law of 1821. This was the first general school *law*. It is easy to see how there might be provision made for the support of schools, long before there was any law by virtue of which the schools themselves should be established.

But let us look at the present school revenues and their sources :

Total receipts, including balance on hand September 1, 1877.....	\$11,488,821 09
Total expenditures.....	7,995,125 45
Receipts from interest on irreducible funds, as reported by Auditor of State.....	223,449 33
From rents and accrued interest on deferred payments due on sale of school lands.....	6,568 23
From State school tax (one mill on each dollar of taxable property)	1,531,081 37
From local taxes.....	5,497,867 15
Omitting some minor sums, we find total receipts.....	\$7,841,911 42

EXPENDITURES.

Amount paid teachers in primary schools.....	\$4,509,733 67
“ “ “ high schools	446,780 79
Total paid teachers.....	\$4,956,514 46
Amount paid for superintending schools.....	\$185,850 40

Including amounts for building sites, interest on and redemption of bonds, fuel, and other contingent expenses, there is as a grand total of expenditures, \$7,995,125.45.

ENUMERATION OF YOUTH.

Whole number of white youth of school age.....	1,018,789
“ “ colored “ “ “	23,174
Whole number of youth of school age.....	1,041,963

The number of unmarried youth between 16 and 21 years of age in September, 1878, as shown by the enumeration returns, is 272,960. This leaves 769,003 youth in the State between 6 and 16 years of age.

About twenty-five per cent. of the unmarried youth of school age is between the ages of 16 and 21, if we rely upon the average of the last six years. The number seems, however, on the increase—from 23+ to 26+. Is there a steadily increasing number of deaths among children over six, or a steadily decreasing number of marriages among children under twenty-one?

SCHOOL OFFICERS.

When we come to examine the lists of those to whom are confided some duties relating to our schools, we find their name to be legion.

Local directors in sub-districts	32,307
Township clerks, as clerks of township boards of education.....	1,347
Township treasurers, as treasurers of township boards of education.....	1,347
Members of city, village, and special district boards (probable) ..	4,080
County examiners of teachers.....	264
City and village district examiners (probable).....	500
State examiners	3
Probate judges, whose school duties are to appoint and remove the county examiners, and, upon petition, to constitute a commission as a court of appeal in matters of new districts and district boundary lines.....	88
County auditors, who are the special guardians of the school funds.....	88
Prosecuting attorneys, who are <i>ex officio</i> counsel for the school boards....	88

AVERAGE MONTHLY WAGES OF TEACHERS.

In township district primary schools—gentlemen, \$36; ladies, \$24. In township district high schools—gentlemen, \$67; ladies, \$42. (It may be remarked that high schools in township districts are exceedingly rare.) In city, village, and special district primary schools—gentlemen, \$59

ladies, \$41. In city, village, and special high schools—gentlemen, \$74; ladies, \$59.

AVERAGE NUMBER OF WEEKS THE SCHOOLS WERE IN SESSION.

Primary schools in townships	28 weeks.
Primary schools in city, village, and special districts	37 "
High schools in townships	38 "
High schools in city, village, and special districts	38 "

AVERAGE RATE OF LOCAL TAX.

Average number of mills on each dollar in township districts	3.20
Average number of mills on each dollar in city, village, and special district ...	

PERCENTAGES OF ATTENDANCE.

Per cent. of average daily attendance on the enrollment in township districts	60.09
Per cent. of average daily attendance on enrollment in city, village, and special districts	71.80
Per cent. of average daily attendance on the enrollment in the State	61.16

Teachers are commissioned for their work by passing an examination conducted by a county board of examiners, who can issue a certificate good in the county; by a city or village board—the village must have a population of 2,500 to be entitled to a special board—good in the city or village; or by the State Board, good throughout the State, and for life unless revoked for cause.

The system of examining teachers, or rather of licensing them, would be greatly improved by any change which would make actual success in the school-room a controlling element. Sound scholarship is essential to success, especially in the higher grades, but there are other essentials which our modes of testing do not test, and which nothing else than actual inspection of work done can test.

It is not necessary to give the statistics of examining boards in this place. A number of persons are furnished with certificates and thus made legal teachers, each year much larger than the number of school-rooms, and not only are the "lower stories" crowded, but the *upper stories* seem to be in the same condition.

The means whereby teachers are prepared for their calling are mainly the district schools themselves, the so called normal or training schools, the high schools of the cities and villages, and the various colleges. In each case the instruction of the school is supplemented by attendance at the county institute on the part of the better class of teachers.

In each county will be found a number of teachers who seem awake to the claims of their profession upon them. They show this by their

attendance at educational meetings, and by their inquiring spirit while there. They also read educational journals, in order to improve their ideal of what a school should be, to "keep up to the times," as we say in other affairs. In the proportion that this class form a large or a small part of the teachers of the county, these schools are forward or backward. But as I intimated just now, teachers will be qualified and schools progressive when the local public so desire.

SECONDARY INSTRUCTION.

A full discussion of the high-school question would not come under the scope of this paper, but it does so come to state that the law has left the course of study to boards of education, who immediately represent the people. If, then, the people do not desire anything beyond an eight years' course, they can say so, and have their will carried out.

The true theory seems to be for the people here to have the exercise of the same right which they enjoy in certain other matters. We pride ourselves in home or neighborhood liberty. In our counties the people can choose commissioners who will build bridges over the streams, or they may select such commissioners as will not thus tax their constituents, and the good people can stay at home till the waters go down, or wade.

Our city councils may think it wise to tax the public and light up the streets. This may be done wisely or foolishly. But the remedy should hardly be for the State in its sovereignty to enter the corporation and overturn the whole system of street lighting, thereby leaving the people in darkness. In my opinion the power to determine the number of years in the school course and the studies to be pursued is wisely left with the people of the various districts.

This legal status is neatly stated in the report of the French Educational Commission on public instruction in the United States: "The law simply establishes as a principle the necessity of public instruction, leaving it to each community to provide for its own needs in its own way."

In the course of an exhaustive argument affirming the constitutionality of certain sections of our school law, and the legality of the action of school boards based thereon, Hon. Isaiah Pillars, Attorney-General of Ohio, said: "It has long been a settled maxim in Ohio, founded on the wisest public policy, 'that the property of a State should educate the children of the State.' This does not mean that they should have the advantages of a free education in the common branches alone, but in whatever goes to constitute education."

COMPULSORY EDUCATION.

Concerning the *right* of a State or government to pass and carry into effect what are known as compulsory education laws, and require parents and guardians, even against their will, to send children to school, there does not appear to be much diversity of opinion. Concerning the policy thereof dependent upon so many known and unknown conditions, there is the widest diversity. I can write no history of the results of the act of March 20, 1877, for it does not seem to have had any.

A great good would be wrought if the wisdom of the General Assembly could devise some means which shall strengthen or supplement the powers of boards of education, and enable them to prevent truancy, even if only in cases where parents desire their children to attend school regularly, but parental authority is too weak to secure that end. The instances are not few in which parents would welcome aid in this matter, knowing that truancy is often the first step in a path leading through the dark mazes of idleness, vagabondage, and crime.

Whatever may be said of young children's working in mills and factories, youthful idlers upon the streets of our towns and cities should be gathered up by somebody and compelled to do something. If they learn nothing else, there will be at least this salutary lesson, that society is stronger than they, and, without injuring them, will use its strength to protect itself.

While we are establishing reform schools for those who have started on the way to their own ruin, and have donned the uniform of the enemies of civil society, it would be a heavenly inspiration to provide some way to rescue those who are yet only lingering around the camp.

JUDICIAL STATISTICS,

AS REPORTED BY CLERKS OF COURTS.

FINES, COSTS, AND FORFEITED RECOGNIZANCES IN CRIMINAL CASES, FOR THE YEAR ENDING JUNE 30, 1878.*

Counties.	Fines.			Costs.			Forfeited recognizances.		
	Amount assessed.	Amount collected.	Amount probably collectible.	Total costs taxed.	Amount taxed against defendants.	Amount collected from defendants.	Amount forfeited.	Amount collected.	Amount collectible.
Adams.....	\$305	\$20	\$35	\$350	\$850	\$71	\$2,100	\$450	\$1,600
Allen.....	125	.....	75	1,501	1,346	7	200	.....	200
Ashland.....	.....	40	40	961	886	123	.....	.....	.....
Ashtabula.....	720	140	170	2,410	2,149	164	.....	.....	.....
Athens.....	155	45	.....	81	9	.....	.....	.....	.....
Auglaize.....	251	66	50	1,050	533	98	100	.....	.....
Belmont.....	450	213	.....	2,032	1,092	42	700	700	.....
Brown.....	255	50	60	3,829	4,476	104	.....	.....	.....
Butler.....	685	77	420	2,623	2,284	34	.....	.....	.....
Carroll.....	20	10	10	205	260	31	200	200	.....
Champaign.....	1,245	517	.....	3,609	2,355	755	50	.....	50
Clarke.....	2,757	2,397	25	2,615	2,200	1,242	.....	.....	.....
Clermont.....	95	50	45	107	108	67	.....	.....	.....
Clinton.....	771	484	93	2,009	894	475	.....	.....	.....
Columbiana.....	1,850	1,046	.....	3,744	3,642	902	.....	.....	.....
Coshocton.....	544	133	64	2,955	2,721	177	.....	.....	.....
Crawford.....	15	10	.....	1,024	853	96	.....	.....	.....
Cuyahoga.....	570	35	.....	15,842	7,568	355	14,050	.....	.....
Darke.....	800	269	540	608	804	370	1,330	250	600
Defiance.....	40	20	.....	1,475	611	13	.....	.....	.....
Delaware.....	95	6	.....	2,558	1,388	44	100	100	.....
Erie.....	30	.....	20	5,965	4,771	4,482	200	.....	.....
Fairfield.....	126	.....	21	3,170	3,170	42	.....	.....	.....
Fayette.....	170	100	.....	6,937	.....	13	500	.....	500
Franklin.....	373	125	150	6,968	3,103	378	1,600	.....	1,600
Fulton.....	55	43	.....	1,154	812	58	75	.....	75

Galla.....	701	165	96	836	29	700	.....	.....	100
Geauga.....	250	75	100	1,504	806	27	200	.....	.....
Greene.....	670	310	60	2,218	1,958	300	.....	.....	.....
Guernsey.....	1,042	182	300	2,640	2,640	230	500	350	.....
Hamilton.....	760	.....	125	.....	.....	.....	19,300	.....	.....
Hancock.....	55	40	55	539	214	72	.....	.....	.....
Hardin.....	430	380	.....	1,349	918	492	600	600	.....
Harrison.....	255	90	.....	490	98	153	.....	.....	.....
Henry.....	10	.....	.....	889	664	.....	.....	.....	.....
Highland.....	300	10	75	551	372	.....	.....	.....	.....
Hocking.....	20	15	.....	2,599	3,312	42	.....	.....	.....
Holmes.....	970	185	85	52	52	40	.....	.....	.....
Huron.....	1,057	.....	683	1,116	.....	119	300	300	.....
Jackson.....	1,245	200	595	3,247	2,741	78	32	1,400	500
Jefferson.....	1,550	401	330	848	486	32	.....	.....	.....
Knox.....	515	42	270	444	414	74	.....	.....	.....
Lake.....	40	40	.....	1,371	923	99	.....	.....	.....
Lawrence.....	333	23	165	2,317	1,532	61	500	.....	200
Licking.....	710	40	290	2,397	1,484	166	600	.....	500
Logan.....	946	231	.....	2,183	2,183	320	.....	.....	.....
Lorain.....	1,415	1,014	135	1,786	171	676	1,300	1,300	.....
Lucas.....	325	75	100	3,519	2,185	253	3,800	.....	3,800
Madison.....	700	345	130	1,371	1,371	251	.....	.....	.....
Malhoning.....	780	415	110	6,653	4,183	331	1,100	500	.....
Marion.....	151	5	56	823	183	14	300	.....	.....
Medina.....	330	270	.....	1,506	1,306	346	.....	.....	.....
Meigs.....	399	107	25	1,534	787	105	.....	.....	.....
Mercer.....	205	.....	.....	1,457	1,318	.....	.....	.....	.....
Miami.....	1,800	625	875	2,291	2,291	294	500	340	.....
Monroe.....	140	90	10	374	374	204	.....	.....	.....
Montgomery.....	.....	.....	.....	3,322	3,322	234	.....	.....	.....
Morgan.....	205	200	.....	463	463	142	.....	.....	.....
Morrow.....	270	30	.....	710	710	108	.....	.....	.....
Muskingum.....	71	10	30	1,463	1,059	55	1,300	500	800
Noble.....	235	150	25	416	416	1	.....	.....	.....
Ottawa.....	.....	45	45	1,001	834	231	.....	.....	.....
Paulding.....	25	5	.....	506	81	34	.....	.....	.....
Perry.....	26	15	11	1,406	1,406	.....	.....	.....	.....
Pickaway.....	110	40	.....	356	356	14	.....	.....	.....
Pike.....	430	80	65	325	325	14	.....	.....	.....
Portage.....	600	175	290	931	931	189	.....	.....	.....
Preble.....	375	180	85	293	165	95	300	.....	300

FINES, COSTS, AND FORFEITED RECOGNIZANCES IN CRIMINAL CASES—Continued.

Counties.	Fines.			Costs.			Forfeited recognizances.		
	Amount assessed.	Amount collected.	Amount probably collectible.	Total costs taxed.	Amount taxed against defendant.	Amount collected from defendants.	Amount forfeited.	Amount collected.	Amount collectible.
Potnam.....	\$420	.....	\$255	\$1,734	\$1,556	\$5	.....	.....	.....
Richland.....	55	\$15	.....	77	77	36	.....	.....	.....
Ross.....	245	125	40	762	762	104	\$250	.....	.....
Sandusky.....	100	100	.....	147	147	.....	.....	.....	147
Scioto.....	565	5	305	1,915	1,915	1,531	.....	.....	.....
Seneca.....	208	105	6	1,099	450	37	.....	.....	.....
Shelby.....	12	11	1	880	582	.....	1	\$1	.....
Stark.....	575	190	.....	4,281	3,032	102	2,500	.....	\$2,800
Summit.....	915	265	445	4,138	2,148	412	200	31	.....
Trumbull.....	950	240	.....	1,760	1,450	311	600	.....	200
Tuscarawas.....	1,925	320	1,140	328	320	72	.....	.....	.....
Union.....	754	793	.....	1,273	942	797	200	.....	.....
Van Wert.....	25,479	10	.....	625	825	138	.....	.....	.....
Vinton.....	240	10	10	945	619	27	1,000	.....	1,000
Warren.....	1,034	125	190	1,809	1,003	286	.....	.....	.....
Washington.....	594	395	60	2,958	2,058	172	1,058	58	100
Wayne.....	200	100	.....	4,069	2,797	126	100	.....	100
Williams.....	282	231	.....	.....	385	355	.....	.....	.....
Wood.....	1	.....	1	1,256	745	54	.....	.....	.....
Wyandot.....	81	35	.....	1,526	1,041	.....	500	.....	500
Totals.....	\$67,167	\$15,500	\$9,552	\$163,153	\$116,994	\$20,963	\$603,145	\$5,050	\$15,672

• Fractions omitted.

CIVIL JUDGMENTS FOR THE YEAR ENDING JUNE 30, 1878.

Counties.	Number rendered.	Number for money only.	Other judgments in which money is included.	Amount adjudged due.	Average amount of each judgment.	Number of decrees.
Adams	83	83	-----	\$62,878	\$758	21
Allen	186	179	7	38,908	209	48
Ashtabula	214	146	68	80,250	375	68
Ashland	188	114	74	158,374	842	31
Athens	134	97	13	99,509	905	37
Auglaize	138	88	50	62,690	454	30
Belmont	248	198	19	204,378	942	121
Brown	322	227	46	101,835	373	48
Butler	378	277	101	281,618	648	101
Carroll	204	136	34	118,379	496	45
Champaign	301	267	34	216,024	718	170
Clark	388	329	59	228,059	588	55
Clermont	347	237	110	205,615	593	27
Clinton	332	209	20	212,063	926	103
Columbiana	161	70	91	109,276	679	101
Coshocton	214	196	18	139,894	654	29
Crawford	146	81	65	127,509	873	3
Cuyahoga	2,235	1,399	655	2,554,320	1,143	181
Darke	304	189	53	146,090	603	102
Defiance	237	140	97	111,919	472	-----
Delaware	290	289	-----	196,308	701	155
Erie	161	80	73	143,217	936	100
Fairfield	348	257	60	187,000	590	31
Fayette	500	430	-----	455,510	1,059	70
Franklin	1,187	539	255	1,036,810	1,366	272
Fulton	161	144	15	56,478	355	19
Gallia	129	76	53	61,558	477	26
Geauga	60	42	18	61,866	1,031	18
Greene	378	305	73	178,425	472	54
Guernsey	240	73	86	76,366	480	81
Hamilton	2,078	918	-----	1,286,111	1,401	1,268
Hancock	175	112	63	74,563	426	97
Hardin	281	142	139	142,482	507	116
Harrison	183	138	45	153,226	837	20
Henry	270	142	128	89,015	330	128
Highland	132	105	27	71,716	643	6
Hocking	98	59	39	68,000	694	41
Holmes	202	62	24	44,590	518	33
Huron	160	81	79	79,945	450	59
Jackson	123	58	22	110,564	1,382	43
Jefferson	177	86	-----	167,877	1,952	91
Knox	211	135	-----	139,749	1,045	76
Lake	134	46	88	157,042	1,172	42
Lawrence	254	63	74	136,562	997	47
Licking	372	82	290	208,505	560	87
Logan	200	200	-----	97,382	487	58
Lorain	189	62	69	122,118	932	58
Lucas	2,080	1,188	779	1,541,848	784	113
Madison	147	147	-----	74,700	508	8
Mahoning	244	164	-----	266,376	1,624	80
Marion	157	85	60	86,000	594	15
Medina	149	85	43	108,997	852	64
Meigs	143	126	17	153,343	1,072	16
Mercer	110	86	24	50,394	458	29
Miami	245	216	-----	184,833	856	43
Monroe	134	53	79	70,219	532	2
Montgomery	1,097	691	406	505,637	461	203

CIVIL JUDGMENTS FOR THE YEAR ENDING JUNE 30, 1878—Continued.

Counties.	Number rendered.	Number for money only.	Other judgments in which money is included.	Amount adjudged due.	Average amount of each judgment.	Number of decrees.
Morgan	80	80	-----	37,650	471	13
Morrow	89	62	27	50,826	571	37
Muskingum	232	139	93	194,825	840	269
Noble	195	123	47	116,701	626	23
Ottawa	204	70	92	81,322	502	42
Paulding	76	31	45	24,806	326	57
Perry	339	271	68	174,715	515	24
Pickaway	6-0	3-0	110	144,670	314	220
Pike	77	62	15	25,719	334	20
Portage	164	85	79	115,521	704	60
Preble	122	79	-----	64,467	816	23
Putnam	211	100	111	71,111	337	31
Richland	288	152	92	148,209	607	92
Ross	327	149	-----	187,576	1,259	49
Sandusky	120	58	2	69,772	1,163	20
Scioto	191	113	78	120,158	629	31
Seneca	272	171	101	177,826	654	107
Shelby	216	157	21	75,931	427	38
Stark	536	536	-----	461,655	861	78
Summit	476	185	71	237,920	930	110
Trumbull	710	220	130	120,169	169	130
Tuscarawas	161	81	80	126,679	727	17
Union	254	129	65	117,176	462	23
Van Wert	233	215	18	104,237	447	421
Vinton	92	57	35	61,386	667	32
Warren	264	150	114	353,019	1,337	269
Washington	172	113	59	52,873	307	19
Wayne	296	165	131	165,160	558	25
Williams	122	80	42	64,686	532	56
Wood	314	120	134	156,435	498	211
Wyandot	404	210	92	110,025	364	102
Total	27,866	17,213	6,694	\$17,918,235	\$61,896	\$7,645

PROSECUTIONS FOR CRIMES AGAINST THE PERSON, FOR THE YEAR ENDING JUNE 30, 1878.

County.	Indictments pending July 1, 1877, and persons included.		Indictments found within the year, and persons included.		Total number indicted, persons and persons.		Terminated by death.		Indictments quashed and laid away.		Nolle prosequi entered.		Execution.		Imprisonment in the penitentiary.		Imprisonment in the county jail only.		Fine and imprisonment in the county jail.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.
Adams.....	5	6	9	9	14	15			1	1									3	3
Allen.....	1	1	14	22	15	21	1												1	1
Ashtabula.....	10	17	16	19	26	36													1	1
Athens.....	5	7	9	9	14	16													1	1
Auglaize.....	1	1	2	2	3	5													1	1
Belmont.....	4	4	3	3	7	7													7	8
Brown.....	5	11	11	15	16	16													1	1
Butler.....	3	37	41	40	41	41			6	6									17	17
Carroll.....	1	1	3	4	4	5													1	1
Champaign.....	5	12	12	17	17	17													7	7
Clarke.....	1	21	24	24	25	25			5	5									6	6
Clermont.....	7	10	10	17	17	17			3	3									7	7
Clinton.....	3	23	22	26	26	26													3	3
Columbiana.....	6	16	18	22	24	24			6	6									4	4
Coshocton.....	3	20	20	22	22	22													1	1
Crawford.....	4	4	4	4	4	4			7	7									3	3
Cuyahoga.....	17	18	20	43	56	61													10	10
Delaware.....	3	4	9	12	12	12													2	2
DeLaware.....	3	4	9	12	12	12			2	2									2	2
Erie.....	10	12	2	9	12	12													1	1
Fayette.....	13	19	4	17	21	21													2	2
Franklin.....	7	9	36	43	43	53			1	1									8	8
Fulton.....	1	3	3	4	4	4													1	1
Gallia.....	14	18	20	21	34	42													2	2
Geauga.....	1	1	4	6	5	7													6	6
Greene.....	6	98	98	95	34	31			2	2									1	1

PROSECUTIONS FOR CRIMES AGAINST THE PERSON—Continued.

County.	Indictments pending July 1, 1877, and persons included.		Indictments found within the year, and persons included.		Total number indictments and persons.		Terminated by death.		Indictments quashed and laid away.		Not prosecuted.		Execution.		Imprisonment in the penitentiary.		Imprisonment in the county jail only.		Fine only.		Fine and imprisonment in the county jail.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.
Guernsey	0	0	3	3	12	12	...	...	1	1	4	4	...	...	13	13	...	...	...	...	1	1
Hamilton	44	58	68	77	112	132	...	...	13	13	5	4	...	...	...	...	...	...	...	...	...	...
Hamlet	...	...	5	6	5	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harlin	...	...	14	18	18	20	...	...	...	...	7	10	...	...	3	10	...	...	...	...	...	...
Harrison	1	2	8	9	9	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Henry	1	2	9	3	3	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Highland	8	9	16	20	24	26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hocking	1	1	13	16	14	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Holmes	2	2	5	5	7	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Huron	12	10	6	7	18	17	...	...	...	...	12	10	...	...	...	...	...	...	...	...	...	...
Jackson	...	...	27	43	28	43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jefferson	1	1	14	15	19	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Johnson	2	3	16	19	19	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Knox	...	...	3	3	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lake	1	1	2	2	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lawrence	...	...	21	21	21	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Licking	8	8	14	14	14	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Logan	6	6	14	14	14	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lorain	1	1	12	20	13	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lucas	11	17	33	37	44	54	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madison	8	10	8	9	16	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Marion	10	10	13	14	23	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Marion	2	2	9	15	11	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Meigs	2	2	7	9	9	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Meigs	6	6	7	8	13	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mercer	2	2	3	3	3	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Miami	2	2	11	12	16	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe	2	2	11	11	13	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Montgomery	4	4	11	17	17	20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

[illegible]

PROSECUTIONS FOR CRIMES AGAINST THE PERSON—Continued.

Counties.	Sent to Reform School.		Acquittal.		Total cases disposed of.		Failure to arrest.		Escape.		Trial not commenced.		Trial commenced and continued.		Total still pending.		Defendant's counsel paid by county.		Am't paid defendant's counsel by county.		No. of crimes probably committed under the influence of intoxicating liquors.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.
Adams.....	1	1	1	1	10	10	4	5	1	1	5	6	1	1	4	5	1	1	25	2	7	6
Allen.....	1	1	1	1	14	14	3	5	1	1	5	6	1	1	8	9	2	2	60	2	9	7
Ashland.....	1	1	1	1	7	7	1	1	1	1	1	1	1	1	1	1	1	1	135	1	11	11
Ashmunla.....	1	1	1	1	17	17	5	7	1	1	1	1	1	1	1	1	1	1	130	1	5	5
Athens.....	2	2	2	2	13	13	5	7	1	1	1	1	1	1	1	1	1	1	1	1	5	5
Auglaize.....	1	1	1	1	11	11	2	3	1	1	2	3	1	1	2	3	2	2	4	1	5	5
Belmont.....	1	1	1	1	12	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5
Brown.....	2	2	2	2	38	38	4	4	1	1	1	1	1	1	1	1	1	1	100	2	3	3
Butler.....	1	1	1	1	17	17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5
Carroll.....	1	1	1	1	17	17	1	1	1	1	1	1	1	1	1	1	1	1	100	2	3	3
Champaign.....	1	1	1	1	24	24	7	7	1	1	1	1	1	1	1	1	1	1	60	1	3	3
Clarke.....	1	1	1	1	25	25	7	7	1	1	1	1	1	1	1	1	1	1	15	2	3	3
Clermont.....	1	1	1	1	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5
Clinton.....	4	4	4	4	24	24	7	7	1	1	1	1	1	1	1	1	1	1	15	2	3	3
Columbiana.....	1	1	1	1	15	15	2	2	1	1	1	1	1	1	1	1	1	1	1	1	5	5
Coshocton.....	2	2	2	2	18	18	2	2	1	1	2	2	1	1	2	2	1	1	1	1	5	5
Crawford.....	1	1	1	1	6	6	2	2	1	1	2	2	1	1	2	2	1	1	1	1	5	5
Cuyahoga.....	13	5	4	4	47	52	6	13	1	3	9	9	4	4	9	9	17	18	170	8	17	17
Darke.....	1	1	1	1	38	38	6	6	1	1	1	1	1	1	1	1	1	1	1	1	5	5
Defiance.....	1	1	1	1	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5
Delaware.....	3	3	3	3	11	11	1	1	1	1	1	1	1	1	1	1	1	1	205	5	13	13
Erie.....	1	1	1	1	15	15	7	7	1	1	1	1	1	1	1	1	1	1	245	10	13	13
Fairfield.....	7	7	7	7	13	13	7	7	1	1	1	1	1	1	1	1	1	1	450	1	3	3
Fayette.....	8	8	8	8	12	12	2	2	1	1	1	1	1	1	1	1	1	1	1	1	5	5
Franklin.....	3	3	3	3	32	32	2	2	1	1	1	1	1	1	1	1	1	1	75	3	3	3
Fulton.....	4	4	4	4	2	2	7	13	1	1	1	1	1	1	1	1	1	1	1	1	135	13
Gallia.....	1	1	1	1	25	25	2	2	1	1	1	1	1	1	1	1	1	1	1	1	13	13
Greene.....	1	1	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	75	75

[illegible]

PROSECUTIONS FOR CRIMES AGAINST THE PERSON—Continued.

Counties.	Sent to Reform School.		Acquitted.		Total cases disposed of.		Failure to arrest.		Escape.		Trial not commenced.		Trial commenced and continued.		Total still pending.		Defendant's counsel paid by county.		Amount paid defendant's counsel by county.		No. of crimes probably committed under the influence of intoxicating liquors.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	\$125.	75.	No. indictments.	No. persons.
Warren.....	11	15	1	3	11	21	4	2	2	2	2	2	1	15	8	15	2	2	\$125	75	8	9
Washington.....			6	8	95	30	4	4	2	2	2	1	1	9	2	3	2	2	75	15	8	9
Wayne.....			2	2	15	15							2	2	2	2						
Williams.....			3	3	5	5							2	2	2	2						
Wood.....			7	1	7	7	1	1			2	2	2	2	2	2	2	2	30	30	3	
Wyandot.....			5	1	5	5					2	2	2	2	2	2	2	2	75	75		
Totals.....	11	15	99	122	1056	1224	83	112	10	15	222	271	95	110	410	508	169	177	\$8860	177	177	202

* Not reported.

† Sent to work-house.

; One case transferred to another county included.

PROSECUTIONS FOR OFFENSES AGAINST PROPERTY, AND RESULTS, FOR THE YEAR ENDING JUNE 30, 1878.

County.	Indictments pending July 1, 1876, and persons included.		Indictments found within the year, and persons included.		Totals.		Terminated by death.		Indictments quashed, laid away, etc.		Nolle prosequi entered.		Imprisonment in the penitentiary.		Imprisonment in the county jail only.		Fine only.		Fine and imprisonment in county jail.		Restitution only.		Restitution and imprisonment in county jail.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.
Adams	9	10	6	15	15	19			4	9	2	6	1	4	5	5				2	2		1	1
Allen	5	5	21	29	26	34						1	1	1	1									
Ashtabula			11	11	11	11						2	2	7	13	1	1	1	1	2	2			
Ashland	23	30	27	50	50	62					13	14	6	8	8									
Ashabula	6	9	11	20	19	50					1	2	3	3	7	11	1	1	1	1				
Athens	3	3	13	18	15	21					1	2	4	4	4									
Auglaize	3	5	6	9	11	11						1	3	4	4									
Belmont	3	3	14	14	17	17						1	3	4	4									
Brown	7	11	50	65	57	76			10	20	3	5	6	6	6	4	4	13	17	1	1	1	1	1
Butler	2	2	7	10	9	12						3	5	1	2	3								
Carroll	3	12	17	23	26	35			12	15	3	7	7	14	1	1	2	3	1	1	1	1	1	1
Champaign	3	12	17	23	26	35			12	15	3	7	7	14	1	1	2	3	1	1	1	1	1	1
Clark	10	21	13	14	22	35			2	3	9	11	12	14	1	1	2	3	3	5	10			2
Clermont	2	2	12	13	14	23						3	5	3	3	1	1	2	3	3	5			2
Columbiana	2	2	22	23	21	34						2	2	4	7	9	1	1	2	3	3			2
Coshocton	2	2	13	13	14	23						2	2	4	7	9	1	1	2	3	3			2
Crawford	41	45	108	129	140	197				3	9	2	2	7	10	8	11	40	46	5	8			2
Cuyahoga	19	24	6	7	25	31			1	1	53	70	40	40	8	11								2
Darke	1	1	11	10	12	10						5	10	4	7									2
Defiance	1	1	11	9	12	10						4	9	4	7									2
Delaware	22	10	25	43	47	52			21	22		4	8	4	1	1	1	1	1	1				2
Erie	22	15	11	15	33	30						9	9	8	10	13	2	3	5	6				2
Fairfield	6	7	10	11	16	18						1	1	4	5	1	1	1	1	1				2
Fayette	11	23	67	87	78	110			3	11	11	15	25	31	3	3	4	7	7	1	1	1	1	1
Franklin	2	2	6	4	6	10			1	1	1	1	3	3	5	1	1	1	1	1				2
Fulton	23	30	16	27	39	57						18	24	6	7	1	1	1	1	1				2
Gallia	2	2	6	8	8	10						3	3	1	2	3								2
Geauga	14	16	29	39	53	55			1	1	4	3	3	1	19	2								2
Greene												4	4	3	1	3								2

PROSECUTIONS FOR OFFENSES AGAINST PROPERTY, AND RESULTS—Continued.

Counties.	Indictments pending July 1, 1876, and persons included.		Indictments found within the year, and persons included.		Totals.		Terminated by death.		Indictments quashed, laid away, etc.		No. prosecuted entered.		Imprisonment in the penitentiary.		Imprisonment in the county jail only.		Fine only.		Fine and imprisonment in county jail.		Restitution only.		Restitution and imprisonment in county jail.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.
Guernsey	6	8	10	16	16	29	3	7	6	9	11	3	3	42	1	2	1	3	1	3	1	3	1	
Hamilton	44	54	108	128	152	152	11	11	13	14	1	6	31	42	1	2	1	3	1	3	1	3	1	
Hancock	2	6	24	25	26	31	1	4	3	3	4	5	9	9	1	1	1	1	1	1	1	1	1	
Hardin	5	3	14	20	17	23	1	4	3	3	1	4	5	5	1	1	1	1	1	1	1	1	1	
Harrison	4	4	8	7	13	11	1	1	1	1	1	1	6	6	1	1	1	1	1	1	1	1	1	
Henry	4	4	7	10	11	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Hughland	3	3	11	11	14	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Hocking	1	1	11	13	11	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Holmes	1	1	20	22	21	23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Huron	3	3	19	21	22	34	2	6	3	3	2	3	2	7	2	2	1	1	1	1	1	1	1	
Jackson	5	5	16	18	16	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Jefferson	3	3	17	22	20	25	2	6	3	3	2	3	2	7	1	1	1	1	1	1	1	1	1	
Jones	3	3	17	22	20	25	2	6	3	3	2	3	2	7	1	1	1	1	1	1	1	1	1	
Knox	5	5	14	21	19	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Lake	5	5	17	20	17	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Lawrence	5	5	17	20	17	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Licking	5	5	25	16	31	48	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Logan	3	3	6	14	25	16	31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Lorain	4	4	5	20	37	24	43	2	7	7	2	2	3	5	1	1	1	1	1	1	1	1	1	
Lucas	20	32	58	68	78	100	3	6	6	6	10	3	22	36	1	1	1	1	1	1	1	1	1	
Madison	3	3	8	10	11	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Masoning	9	9	19	25	28	34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Marion	10	10	19	25	19	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Medina	7	7	2	3	9	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Meigs	5	5	16	20	21	25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mercer	4	4	7	8	11	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Miami	12	12	24	31	36	43	2	6	3	3	2	3	17	21	1	1	1	1	1	1	1	1	1	
Montgomery	31	19	28	36	49	57	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Morgan	11	11	4	4	15	15	1	1	8	8	1	1	1	1	1	1	1	1	1	1	1	1	1	

Marrow.....	1	1	15	15	16	16	16	16	1	2	1	1	1	7	7	7	1	1	2	2	3	3	3
Muskingum.....	1	1	15	16	16	16	16	16	1	2	1	1	1	7	7	7	1	1	2	2	3	3	3
Noble.....	2	2	4	4	6	6	6	6	6	6	3	4	3	3	3	3	2	1	1	1	1	1	1
Ottawa.....	13	15	5	5	18	20	20	20	6	6	3	4	3	3	3	3	2	1	1	3	3	3	3
Paulding.....	6	11	5	8	11	19	19	19	1	1	2	7	7	4	5	5	7	7	7	7	7	7	7
Perry.....	1	1	5	6	6	7	7	7	1	1	1	1	1	4	5	5	7	7	7	7	7	7	
Pickaway.....	2	2	7	7	9	9	9	9	1	1	1	1	1	3	3	3	1	1	1	1	1	1	1
Pike.....	4	5	3	7	10	10	10	10	1	1	1	1	1	3	3	3	1	1	1	1	1	1	1
Portage.....	5	14	23	27	28	41	41	41	1	1	4	4	4	7	7	7	5	5	5	5	5	5	5
Prairie.....	6	6	18	18	24	24	24	24	1	1	4	4	4	8	8	8	2	2	2	2	2	2	2
Preble.....	5	4	6	11	11	15	15	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Putnam.....	1	1	15	13	16	14	14	14	1	1	5	3	3	5	5	5	2	2	2	2	2	2	2
Rehland.....	10	10	23	22	33	32	32	32	1	1	4	4	4	4	4	4	3	3	3	3	3	3	3
Ross.....	3	4	18	23	23	31	31	31	1	1	3	4	4	7	7	7	10	12	1	1	1	1	1
Sandusky.....	2	3	14	20	16	23	23	23	1	3	2	1	1	9	11	11	3	3	3	3	3	3	3
Scioto.....	3	16	18	16	18	23	23	23	1	3	2	4	4	5	5	5	3	2	2	2	2	2	2
Seneca.....	6	7	14	18	20	25	25	25	2	2	2	2	2	6	6	6	1	1	1	1	1	1	1
Shelby.....	5	7	9	12	14	19	19	19	2	2	2	2	2	7	7	7	2	2	2	2	2	2	2
Stark.....	12	16	17	28	29	44	44	44	3	3	5	9	3	4	4	4	1	4	1	2	2	2	2
Summit.....	12	19	31	42	43	61	61	61	1	2	6	12	8	8	8	8	2	2	2	2	2	2	2
Tuscarawas.....	7	14	16	27	23	41	41	41	2	6	5	7	6	10	10	10	3	5	4	7	7	7	7
Union.....	4	4	10	10	10	10	10	10	1	1	1	1	1	4	4	4	1	1	1	1	1	1	1
Van Wert.....	4	4	9	12	13	16	16	16	1	1	3	5	5	6	8	8	1	1	1	1	1	1	1
Wadon.....	1	2	4	5	5	7	7	7	1	2	4	5	5	7	7	7	1	1	1	1	1	1	1
Warren.....	3	4	19	20	22	24	24	24	3	3	4	5	7	8	8	8	1	1	1	1	1	1	1
Washington.....	21	26	18	21	39	49	49	49	1	2	4	6	9	10	10	10	1	1	1	1	1	1	1
Wayne.....	2	2	29	32	31	34	34	34	2	2	5	5	11	12	11	12	3	2	2	2	2	2	2
Williams.....	2	2	4	4	6	6	6	6	2	2	1	1	1	3	3	3	1	1	1	1	1	1	1
Wood.....	2	2	4	19	23	21	27	27	6	6	3	7	4	4	4	4	2	3	3	3	3	3	3
Wyandot.....	2	2	8	10	18	18	18	18	1	1	1	6	6	2	2	2	2	2	2	2	2	2	2
Totals.....	622	751	1544	5003	2166	3754	1	1	170	226	355	407	532	654	97	123	88	115	148	2	2	9	9

* Imprisonment in work-house.

Greene	7	3	42	43	3	4	8	8	11	13	20	270 00
Guernsey	9	3	16	99	105	132	6	7	105	122	18	31
Hamilton	1	1	1	47	60	6	7	4	6	7	3	
Hancock	1	1	1	20	24	1	3	3	4	4	2	30 00
Hardin	2	1	13	19	1	1	3	3	1	1	9	50 00
Harrison	2	1	10	20	1	1	2	6	5	8	5	175 00
Henry	1	1	6	10	1	1	2	3	5	14	2	100 00
Highland	1	1	9	10	1	1	4	13	3	6	3	100 00
Hocking	3	3	6	6	3	3	4	13	2	5	1	1
Holmes	1	1	3	6	3	3	4	13	2	5	1	1
Idaho	1	1	20	22	1	1	1	1	1	1	2	130 00
Illinois	3	5	13	13	1	1	1	1	9	11	9	6
Jackson	2	5	14	20	1	1	1	2	1	2	4	145 00
Jefferson	1	1	15	29	1	1	1	3	5	7	12	1
Jones	3	4	13	13	1	1	1	1	5	8	7	25 00
Knox	3	4	14	17	1	1	1	1	3	5	7	9
Lake	1	1	1	16	1	1	1	1	1	3	4	2
Lawrence	1	1	3	22	45	2	3	6	7	8	9	14
Licking	1	1	3	22	45	2	3	6	7	8	9	14
Lincoln	1	1	2	4	6	15	27	1	1	1	6	485 00
Logan	1	2	4	6	15	27	1	1	1	1	6	150 00
Lorain	2	22	40	1	3	3	1	1	2	2	2	1
Lucas	10	12	11	56	81	3	1	18	17	19	36	745 00
Madison	1	1	10	12	1	1	1	1	1	1	5	250 00
Manitou	1	1	4	6	29	13	1	1	1	1	11	275 00
Marietta	3	5	4	5	11	9	1	1	2	2	14	12
Martin	5	3	3	3	2	2	1	1	1	1	8	5
Medina	3	4	12	17	5	5	1	1	1	1	8	6
Melroe	3	4	12	17	5	5	1	1	1	1	8	6
Merger	3	4	12	17	5	5	1	1	1	1	8	6
Miami	35	42	1	1	1	1	1	1	1	1	1	1
Monroe	1	1	2	4	56	1	1	2	6	1	1	1
Monroe	3	4	4	56	1	1	1	2	6	1	1	1
Morgan	5	5	12	15	1	1	1	2	3	7	4	880 00
Morrow	5	5	12	15	1	1	1	2	3	7	4	110 00
Muskegon	1	14	17	1	1	1	1	1	1	1	3	5
Muskegon	1	14	17	1	1	1	1	1	1	1	3	5
Noble	1	3	3	3	3	3	1	1	1	1	3	3
Ottawa	9	2	16	17	1	1	1	2	3	2	2	1
Paulding	1	1	6	11	1	1	1	1	1	1	3	2
Perry	4	4	5	1	1	1	1	1	1	1	3	2
Pickaway	1	4	6	6	1	1	1	1	1	1	3	3
Pike	1	4	6	6	1	1	1	1	1	1	3	3
Pike	1	1	5	8	2	2	1	1	1	1	3	3
Portage	2	2	34	1	1	1	1	1	1	1	6	7
Preble	1	1	18	15	5	5	1	1	1	1	6	7
Putnam	1	1	7	10	3	2	1	1	1	1	3	4
Putnam	1	1	7	10	3	2	1	1	1	1	3	4
Richland	1	1	15	13	6	7	1	1	1	1	11	9
Ross	1	1	13	13	6	7	1	1	1	1	11	9
Sandusky	1	1	14	20	2	3	1	1	5	9	19	3
Sandusky	1	1	14	20	2	3	1	1	5	9	19	3
Scioto	3	3	16	18	2	3	1	1	1	1	5	6
Seneca	3	3	16	18	2	3	1	1	1	1	5	6
Shelby	3	5	18	22	2	3	1	1	1	1	5	6
Shelby	3	5	18	22	2	3	1	1	1	1	5	6
Stark	3	6	12	16	6	9	2	2	2	3	9	8
Summit	8	11	23	35	6	9	2	2	2	3	9	8
Summit	1	2	1	1	1	1	1	1	1	1	1	1
Trumbull	1	2	2	2	3	5	1	1	1	1	1	1
Tuscarawas	1	1	22	39	1	2	1	1	1	1	1	1
Union	10	10	10	10	10	10	10	10	10	10	10	10
Van Wert	1	11	14	1	1	1	2	2	2	2	1	1

PROSECUTIONS FOR CRIMES AGAINST PROPERTY, AND RESULTS—Continued.

County.	Restitution and fine.		Sent to Reform School.		Acquittal.		Totals.		Failure to arrest.		Escape.		Trial not commenced.		Trial commenced and continued.		Totals.		Defendant's counsel paid by county.		Amount paid defendant's counsel by county.		Crimes probably committed under the influence of intoxicating liquors.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	\$	No. indictments.	No. persons.	
Vinton	2	3	24	31	157	201	1552	2010	137	173	53	34	341	420	105	117	616	744	398	436	\$9,650 00	105	126	
Warren	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Washington	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wayne	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Williams	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wood	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wyandot	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	2	3	24	31	157	201	1552	2010	137	173	53	34	341	420	105	117	616	744	398	436	\$9,650 00	105	126	

* Not reported.

† Sent to Work-house.

PROSECUTIONS FOR OFFENSES AGAINST PUBLIC PEACE, PUBLIC JUSTICE, PUBLIC POLICY, CHASTITY, MORALITY, ETC., FOR THE YEAR ENDING JUNE 30, 1878.

County.	Indictments pending July 1, 1877, and persons included.		Indictments found within the year, and persons included.		Totals.		Terminated by death.		Indictments quashed, laid away, etc.		Nolle prosequi entered.		Imprisonment in the county jail only.		Imprisonment in work house only.		Fine and imprisonment in county jail.		Fine and imprisonment in work house.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.
Adams	4	4	11	15	15	19			1	1	5	6								
Allen			6	9	6	9														
Ashtabula	9	9	34	27	33	36					12	14								
Athens	15	28	5	5	20	33					11	30								
Angazote	1	2	4	3	5	5					2	3								
Belmont	3	6	17	14	16	30			1	4	3	4								
Brown	10	15	17	17	17	32			1	1	4	1								
Budef	1	1	22	27	23	35			1	4	1	1								
Carroll	2	3	14	12	14	15					7	7								
Chickadee	6	6	13	13	13	14					40	44								
Clark	13	13	159	134	132	140			20	30	2	2								
Clarksville	24	38	61	49	53	54					3	13								
Clermont	5	9	41	43	46	41					7	9								
Columbiana	9	7	74	40	63	47					13	11								
Coshocton	2	2	57	36	59	38			3	2	1	1								
Crawford			9	9	9	9														
Cuyaboga	3	3	106	103	103	111					100	101								
Darke	11	11	15	13	26	29					1	1								
Defiance			1	4	1	4														
Delaware	6	7	71	77	77	79			4	5	56	57								
Erie	3	3	14	15	16	17					1	1								
Fairfield	9	5	5	13	14	18					8	11								
Fayette	9	9	10	13	14	24					1	1								
Franklin	6	7	10	11	16	18			1	1	1	1								
Fulton			7	13	7	13					4	5								
Gallia	3	4	23	20	24	34					7	8								

PROSECUTIONS FOR OFFENSES AGAINST PUBLIC PEACE, ETC.—Continued.

County.	Indictments pending July 1, 1877, and persons included.		Indictments found within the year, and persons included.		Total.		Terminated by death.		Indictments quashed, laid away, etc.		Nolle prosequi entered.		Imprisonment in the penitentiary.		Imprisonment in the county jail only.		Imprisonment in work house only.		Fine and imprisonment in the county jail.		Fine and imprisonment in work house.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.
Geauga.....	4	3	12	10	35	13			5	3	14	3							6	1	105	13
Greene.....	26	9	171	31	199	40					21	3							5	5		
Guernsey.....	11	14	46	46	57	60			2	3	8	3										
Hamilton.....	10	10	12	13	23	22																
Hancock.....			9	9	9	9																
Hardin.....	6	5	36	26	32	32			2	2	4	4							1	1		
Harrison.....	6	5	26	26	32	32																
Hillsdale.....			4	16	9																	
Highland.....	13	13	29	31	42	44					10	10										
Hocking.....			8	14	8						4	7										
Holmes.....			96	90	96	90			1	1	7	5										
Huron.....			61	84	63	96			14	2	9	9										
Jackson.....	2	2	54	74	56	76			6	6	8	8							1	1		
Jefferson.....	16	10	104	110	124	120			2	37	80	53										
Knox.....	5	4	94	97	93	31					6	7										
Lake.....	3	3	5	3	8	6					3	3										
Lawrence.....			21	26	21	26					7	7										
Licking.....	5	6	16	39	21	45			1	1	7	7							1	1		
Lorain.....			81	81	81	41					14	7							1	1		
Lucas.....	11	11	41	53	52	66			2	1	6	6							8	8		
Madison.....	12	23	11	23	34						6	6										
Madison.....	20	19	25	32	45	51			17	23	14	14										
Marion.....	7	2	4	4	11	6																
Medina.....	6	6	14	16	20	22					5	7										
Melara.....	5	6	10	21	24	27					1	3										
Mercer.....			6	9	6	9																
Miami.....			35	27	35	27					11	3										
Monroe.....	9	5	17	11	26	16					17	6										

[illegible]

PROSECUTIONS FOR OFFENSES AGAINST PUBLIC PEACE, ETC.—Continued.

County.	Fine only.		Sent to reform school.		Acquittal.		Total.		Failure to arrest.		Escape.		Trial not commenced.		Trial commenced and continued.		Total.		Defendants' counsel paid by county.		Amount paid by county.		Crimes probably committed under the influence of intoxicating liquors.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.			No. indictments.	No. persons.
Adams	4	4					9	10	12	12					3	2	6	9					1	1
Allen							4	4																
Ashland	2	2					2	2	1	1			11	12			11	13					10	10
Ashtabula	9	8					92	24																
Athens	5	5			1	5	19	32																
Aurizise	3	2					5	5																
Belmont	11	11					15	19					1				1	1						
Brown	3	3					9	9					8	13			8	13						
Butler	13	17					20	24	3	4							3	4						
Carroll	4	4			1	1	20	24									1	2						
Champaign	72	76					132	140					1				1	2						
Clarke	105	106			1	2	141	242							11	16	11	16						
Clermont							60	20					9	7	195	37	195	37						
Clinton	40	30			1	1	57	37	7	3					8	5	15	9						
Columbiana	41	25					68	39					5				5	2						
Coshocton	35	19			1	1	54	36					2				1	1						
Crawford							1	1	1	1			1				1	1						
Cuyaboga	2	2			2	2	104	105					2	6	5	2	9	10			\$10			
Darke	11	13			1	1	17	19	4	5			5	5			5	6						
Defiance	1	1			1	1	4	4																
Delaware	7	7			3	3	71	73					6	6			6	6			2			
Erie	3	3			1	1	13	13	1	1			3	3	4	4	4	4						
Fairfield							11	14					3	4	14	17	14	17			40			
Fayette	4	4					7	7					4	5	1	1	5	6						
Franklin	5	5					11	12					2	2			2	2						
Fulton	5	5			2	4	16	19					8	15			8	15						
Galla	7	7					5	5					3	3			3	3						
Geauga	5	5			3	3	92	9					2	2			2	2			2			
Greene							135	99	8	8			10	6			4	4			50			

[illegible]

PROSECUTIONS FOR OFFENSES AGAINST PUBLIC PEACE, Etc.—Continued.

Counties.	Fine only.		Sent to reform school.		Acquittal.		Total.		Failure to arrest.		Escape.		Trial not commenced.		Trial commenced and continued.		Total.		Defendants' counsel paid by county.		Amount paid by county.		Crimes probably committed under the influence of intoxicating liquors.	
	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.	No. indictments.	No. persons.
Warren	19	19					59	59	1	1	1	1	5	5	1	1	4	4					2	3
Washington	11	14			3	3	15	19									8	8						
Wayne	11	13					24	26									3	3						
Williams	21	24					52	59					1	1			2	2						
Wood							6	6					13	13			1	1						
Wyandot							2	2					13	13			13	13						
Totals	1000	948	11	6	78	78	2285	2222	101	85	3	3	378	406	318	179	800	675	18	30	\$675	\$675	54	44

* Not reported.

ATTORNEYS FEES IN CRIMINAL CASES PAID BY COUNTY, FOR THE YEAR ENDING JUNE 30TH, 1878, AS REPORTED BY COUNTY AUDITORS.

Counties.	No.	Amount.	Counties.	No.	Amount.
Adams	7	\$315	Licking	29	\$1,010
Allen	15	450	Logan	6	305
Ashland	10	150	Lorain	3	61
Ashtabula	11	705	Lucas	34	866
Atbens	12	215	Madison	8	394
Auglaize	5	185	Mahoning	21	570
Belmont	6	210	Marion	3	85
Brown	10	205	Medina	2	50
Butler	15	320	Meigs	4	50
Carroll	3	150	Mercer	4	110
Champaign	9	215	Miami	22	395
Clark	11	245	Monroe	2	80
Clermont	5	115	Montgomery	22	871
Clinton	15	485	Morgan	4	160
Columbiana	12	500	Morrow	9	220
Coshocton	11	1,000	Muskingum .....	.....	.....
Crawford	7	300	Noble	4	180
Cuyahoga	71	800	Ottawa	9	74
Darke	16	583	Panlding .....	.....	.....
Defiance	1	40	Perry	8	375
Delaware	8	235	Pickaway	3	155
Erie	12	333	Pike	5	135
Fairfield	6	270	Portage	3	120
Fayette .....	.....	.....	Preble	10	255
Franklin	20	1,000	Putnam	1	55
Fulton	1	25	Richland*	11	220
Gallia	32	675	Ross	9	655
Geauga	3	175	Sandusky	13	410
Greene	18	350	Scioto	20	650
Guernsey	10	440	Seneca	2	50
Hamilton	122	1,827	Shelby	4	240
Hancock	2	215	Stark †	23	735
Hardin	6	95	Summit	12	200
Harrison	4	100	Trumbull	8	470
Henry	9	225	Tuscarawas	9	105
Highland	9	275	Union	5	120
Hocking	1	25	Van Wert .....	.....	.....
Holmes	1	200	Vinton	6	200
Huron	21	455	Warren	9	270
Jackson	16	420	Washington	13	275
Jefferson	14	145	Wayne	12	445
Knox	8	610	Williams	5	190
Lake	6	200	Wood	5	80
Lawrence	11	115	Wyandot	9	265
Totals .....	.....	.....	.....	978	\$27,854

* Number not reported. Estimated from report of Clerk of Courts.

† Number estimated. Not reported by Auditor or Clerk of Courts.

SOCIAL STATISTICS

AND

STATISTICS OF BENEVOLENT AND REFORMATORY INSTITUTIONS.

SOCIAL STATISTICS.

TABLE SHOWING THE NUMBER OF MARRIAGES AND BIRTHS IN EACH COUNTY, AS REPORTED BY PROBATE JUDGES, FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	Marriages.					Births.					
	White.		Colored		Total.	White.		Colored		Sex unknown.	Total number of births.
	By license.	By bans.	By license.	By bans.		Males.	Females.	Males.	Females.		
Adams	235	...	3	...	238	309	293	3	5	...	610
Allen	272	15	1	...	288	441	360	12	1	...	814
Ashland	205	...	1	...	206	221	214	...	1	38	474
Ashtabula	309	...	1	...	301	291	312	2	2	...	607
Athens	255	...	9	...	264	357	292	16	...	...	672
Auglaize	214	9	...	...	223	346	328	...	...	...	674
Belmont	313	...	11	...	324	517	512	25	21	...	1,075
Brown	264	...	...	...	264	346	331	20	22	...	719
Butler	316	...	12	...	328	345	328	...	...	...	673
Carroll	132	...	...	...	132	182	184	1	...	...	367
Champaign	246	...	11	...	257	273	241	10	2	5	531
Clark (a)	324	...	...	...	324	332	308	19	26	...	685
Clermont	283	5	9	...	297	336	329	13	15	23	716
Clinton	247	...	12	...	259	242	230	13	6	...	491
Columbiana	318	...	...	...	318	553	604	4	4	...	1,165
Coshocton	220	...	...	...	220	305	275	...	...	2	582
Crawford	260	5	1	...	266	405	366	2	4	...	777
Cuyahoga	1,147	82	...	...	1,229	1,913	1,755	13	8	...	3,689
Darke	334	...	...	...	334	495	501	3	6	...	1,005
Defiance	195	3	2	...	200	284	298	1	...	...	583
Delaware	239	...	4	...	243	214	223	8	5	...	450
Erie	243	...	...	...	243	326	265	3	4	10	608
Fairfield	283	...	...	...	283	338	339	5	3	...	685
Fayette	167	...	10	...	177	269	226	15	21	10	541
Franklin	707	1	...	...	708	663	626	15	15	3	1,322
Fulton	121	9	...	...	130	227	200	...	...	4	431
Gallia	269	...	26	...	295	327	290	31	32	...	680
Geauga	131	...	...	...	131	143	111	...	...	...	254
Greene (a)	267	...	...	...	267	263	292	22	35	3	605
Guernsey	200	...	6	...	206	238	255	6	3	...	502
Hamilton	2,346	138	106	...	2,590	3,519	3,506	300	366	...	7,685
Hancock	275	...	...	...	275	353	338	...	...	...	691
Hardin	267	2	16	...	285	305	330	6	1	...	642
Harrison	146	...	5	...	151	191	180	13	12	...	386
Henry	140	5	...	...	145	240	202	...	...	...	442
Highland	259	...	4	...	263	313	295	11	17	...	636
Hocking	176	...	3	...	179	303	294	4	4	...	605
Holmes	166	...	...	...	166	244	237	...	...	...	481
Huron	244	1	2	...	247	323	276	3	1	...	603
Jackson	164	...	6	...	170	328	302	11	11	...	652
Jefferson	203	...	7	...	210	286	255	7	15	3	566

NUMBER OF MARRIAGES AND BIRTHS—Continued.

Counties.	Marriages					Births					Total number of births.
	White.		Colored		Total.	White.		Colored		Sex unknown	
	By license.	By bans	By license.	By bans.		Males.	Females.	Males.	Females.		
Knox	270	...	1	...	271	243	224	...	2	...	469
Lake	108	...	...	...	108	137	106	...	...	...	243
Lawrence	327	...	19	...	346	325	527	18	13	...	883
Licking	366	...	1	...	367	444	375	1	1	...	811
Logan	216	...	6	...	222	282	248	6	11	...	547
Lorain	317	20	...	...	337	317	336	16	14	...	683
Lucas	462	32	...	...	494	862	739	8	2	...	1,611
Madison	152	...	...	...	150	141	176	13	10	...	340
Mahoning	202	15	2	...	219	477	415	5	2	1	900
Marion	173	...	...	...	173	212	237	3	2	2	454
Medina	191	...	...	...	194	228	200	...	...	...	428
Meigs	296	...	14	...	310	424	354	22	16	...	816
Mercer	121	30	...	...	151	291	249	...	...	...	540
Miami	272	1	10	...	283	326	303	2	7	...	638
Monroe	235	1	...	...	236	359	319	1	1	...	680
Montgomery	633	...	11	...	644	863	808	21	18	...	1,710
Morgan	171	...	...	...	171	238	248	...	...	...	486
Morrow	178	...	...	...	178	188	148	2	...	50	397
Muskingum	371	...	8	...	379	491	441	4	4	...	940
Noble (a)	199	...	...	...	199	270	227	1	...	...	558
Ottawa	133	...	...	...	133	174	192	...	...	...	366
Panhandling	86	...	3	...	89	173	141	5	12	...	331
Perry	183	...	...	...	183	304	278	...	...	...	582
Pickaway	190	...	2	...	192	275	264	15	13	4	571
Pike	168	...	...	...	168	268	248	9	6	...	531
Portage	221	...	...	...	221	200	211	...	...	...	411
Preble	192	...	9	...	201	264	207	6	7	...	484
Putnam	159	35	...	...	194	300	327	...	1	...	628
Richland	321	...	...	...	321	329	318	...	...	72	719
Ross	352	...	17	...	369	450	388	29	25	...	892
Sandusky	281	4	2	...	287	471	399	3	1	...	874
Scioto	305	3	20	...	328	466	442	10	11	...	929
Seneca	278	10	...	...	288	365	308	1	3	...	737
Shelby	186	13	2	...	201	264	239	7	11	...	521
Stark	469	...	1	...	470	737	788	2	3	64	1,594
Summit	366	...	4	2	372	410	353	4	3	2	772
Trumbull	307	...	3	...	310	508	455	2	2	...	967
Tuscarawas	376	...	...	...	376	509	496	2	1	...	1,008
Union	189	...	1	...	190	274	227	2	7	...	510
Van Wert	207	...	...	...	207	292	332	3	1	...	628
Vinton	149	...	...	...	149	269	257	3	...	...	529
Warren	185	...	10	...	195	213	222	5	6	...	446
Washington	323	5	9	...	337	578	512	20	12	1	1,123
Wayne	301	...	...	...	301	473	429	...	1	...	903
Williams	153	2	...	...	155	251	260	...	...	...	511
Wood	272	3	...	...	275	358	346	...	2	...	706
Wyandot	205	1	...	...	206	233	231	1	2	...	467
Totals	24,913	450	431	2	25,796	34,462	32,755	869	908	306	69,300

(a) White and colored not designated in report.

(b) Estimated—the report of births in Hamilton county being evidently so incorrect as to be valueless, viz.: Males (white) 184, females 162; colored—males 2, females 3; total, 351.

TABLE SHOWING THE NUMBER OF SUITS FOR DIVORCE, CAUSE OF SUITS, DIVORCES GRANTED, ETC., IN EACH COUNTY FOR THE YEAR ENDING JUNE 30, 1874.

Counties.	Suits, etc.						Custody of children.					Cause of divorce.												
	Pending July 1, 1877.	Brought within year.	Decided within year.	Still pending.	Brought by husband.	Brought by wife.	Alimony allowed wife.	Granted to husband.	Refused husband.	Dismissed husband.	Granted to wife.	Refused wife.	Dismissed wife.	Cases in which question was raised.	Given to father.	Given to mother.	Adultery.	Absence and neglect.	Cruelty.	Drunkenness.	Fraud.	Miscellaneous.	Total.	
Adams	4	9	13	5	5	8	2	1	3	1	3	3	3	2	...	2	5	5	4	2	1	1	1	13
Allen	6	15	21	7	9	13	5	3	7	1	10	...	3	...	4	4	5	11	2	1	1	1	1	21
Ashland	11	5	16	3	3	13	5	3	2	6	8	16
Ashtabula	25	56	82	53	35	17	4	7	...	6	30	1	9	10	1	10	14	30	23	7	2	2	2	82
Athens	5	9	14	5	6	7	...	4	4	...	3	3	1	2	10	3	1	14
Angaize	3	16	19	3	12	7	1	9	...	1	3	...	2	3	...	1	3	9	7	19
Belmont	8	21	29	20	9	11	6	6	...	1	11	...	2	5	...	5	5	10	2	2	1	1	1	29
Brown	4	14	22	15	7	14	6	2	9	2	9	...	2	6	...	6	8	16	13	5	4	22
Butler	17	26	43	37	14	25	1	11	...	3	19	...	4	16	5	2	5	16	13	5	4	43
Carroll	3	8	11	7	4	9	1	2	4	...	1	7	1	1	1	8	1	11
Champaign	10	37	47	36	11	36	7	7	...	8	15	...	3	10	10	12	10	8	2	1	...	16	47	
Clarke	13	24	37	27	10	23	4	4	...	3	13	...	9	7	2	5	7	15	8	3	...	4	37	
Clermont	16	18	34	16	12	22	2	6	...	1	11	1	5	6	1	5	7	11	8	5	...	3	34	
Cleont	14	25	42	20	16	26	3	7	...	3	5	...	2	3	3	3	9	19	12	...	1	1	42	
Clinton	15	27	42	33	9	30	3	3	...	4	15	...	11	8	1	7	12	11	14	4	1	...	42	
Columbiana	1	6	7	5	2	4	3	1	...	1	1	...	1	1	1	1	4	2	...	1	...	...	7
Coshocton	7	12	19	15	4	15	2	2	...	...	8	...	5	1	1	1	4	7	5	3	...	...	19
Crawford	12	15	27	18	4	23	4	4	1	1	27
Cuyahoga	42	203	245	177	65	187	35	35	6	7	95	1	33	48	4	44	32	106	41	54	7	5	245	
Darke	23	41	64	43	21	38	64	10	9	2	13	5	4	...	4	8	9	38	13	3	1	...	64	
Defiance	3	17	20	17	3	17	6	2	...	1	13	...	1	5	...	5	5	7	8	...	...	...	20
Delaware	16	17	33	16	17	10	23	4	5	...	16	...	5	4	7	3	4	5	13	3	6	...	33	
Erie	8	29	37	23	14	29	2	3	...	1	15	...	5	7	3	8	9	8	15	3	1	1	37	
Fairfield	7	11	18	14	4	10	4	3	...	...	6	...	3	...	5	6	6	5	4	1	...	...	18
Fayette	4	7	11	6	4	7	5	3	1	2	...	3	...	...	1	2	6	1	2	...	...	...	11

Franklin	51	70	121	70	51	39	82	11	13	1	4	39	3	10	1	1	12	31	39	24	17	4	6	121
Fulton	1	18	19	16	3	4	15	9	2	---	9	2	2	5	10	3	7	3	7	6	3	---	---	19
Galla	6	12	18	14	4	6	12	---	---	---	---	---	2	6	---	---	---	4	11	3	---	---	---	18
Geauga	8	21	29	18	11	11	18	4	6	---	2	7	---	3	3	3	3	7	11	8	9	1	---	29
Greene	7	8	15	12	3	3	12	4	2	---	1	9	---	---	3	1	2	2	9	3	2	---	---	15
Guernsey	3	13	16	5	11	5	11	1	---	---	---	---	---	1	---	---	---	---	---	4	1	1	4	16
Hamilton	501	150	651	130	521	140	311	33	28	1	2	90	---	9	50	8	42	145	182	183	92	8	41	651
Hancock	6	23	29	25	4	10	19	8	7	---	2	4	7	---	2	12	2	6	3	19	3	1	2	29
Hardin	2	15	17	15	2	8	9	4	4	---	4	4	7	---	6	6	6	4	7	1	1	4	17	
Harrison	4	4	4	8	4	4	1	7	2	---	---	---	---	---	1	---	1	---	7	---	---	---	---	8
Henry	3	4	7	6	1	---	---	1	1	---	---	3	3	2	3	3	3	4	7	2	2	1	7	7
Highland	4	11	15	12	3	5	10	1	2	2	1	6	---	---	1	3	3	4	7	2	2	---	---	15
Hocking	3	16	19	11	8	3	16	5	1	---	1	6	---	1	3	---	---	3	16	2	---	---	---	19
Holmes	3	7	10	7	3	3	7	3	1	---	1	1	---	3	3	---	---	---	8	1	1	---	---	10
Huron	24	13	37	32	5	5	32	10	3	---	---	25	---	3	10	1	9	3	23	9	2	---	---	37
Jackson	1	18	19	15	4	6	13	2	3	---	1	8	---	3	3	---	---	5	13	1	---	---	---	19
Jefferson	5	19	24	17	11	11	13	1	3	---	---	---	---	---	1	1	1	5	12	4	2	1	24	24
Knox	12	13	25	13	12	15	10	1	5	---	1	5	---	2	2	1	1	11	10	---	3	1	---	25
Lake	11	15	26	23	3	4	22	3	4	---	---	13	---	6	7	---	7	9	9	7	1	---	---	26
Lawrence	3	15	18	14	4	7	11	---	---	---	3	3	---	4	2	1	1	9	8	1	---	---	---	18
Licking	19	17	36	22	14	10	26	5	3	2	2	12	3	---	---	---	---	5	3	13	---	---	---	19
Logan	6	19	25	14	11	10	15	2	2	---	1	9	---	2	---	---	5	3	13	---	1	4	8	25
Lorain	3	28	31	27	4	5	26	9	4	---	---	18	---	5	6	1	5	5	12	13	---	1	31	
Lucas	27	87	114	74	35	50	64	9	25	2	7	34	1	10	18	8	10	47	35	9	14	9	114	
Madison	1	5	6	3	3	3	3	---	1	---	---	---	2	---	---	---	2	3	3	---	---	---	---	6
Mahoning	20	24	41	24	20	11	33	---	4	2	4	8	---	6	3	2	7	15	12	12	4	1	---	44
Marion	5	19	24	18	6	6	18	3	2	---	---	10	---	6	8	1	7	3	10	5	3	2	1	24
Medina	3	13	16	14	2	4	12	3	2	1	---	8	---	3	4	---	4	1	11	2	1	1	16	
Melms	10	22	32	25	7	7	25	3	2	---	5	9	---	9	---	1	6	9	10	9	4	---	---	32
Mercer	8	8	8	8	---	---	---	6	1	---	---	---	7	---	2	2	2	2	4	2	---	---	---	8
Miami	9	29	38	32	6	7	31	2	5	---	---	22	3	2	4	---	14	7	23	---	7	1	---	35
Monroe	2	11	13	8	5	5	8	2	2	---	1	---	4	1	3	---	3	5	6	2	---	---	---	13
Montgomery	79	75	154	87	67	49	105	8	12	1	12	34	4	24	---	4	12	16	62	45	20	8	3	154
Morgan	2	12	14	10	4	3	11	2	2	---	---	8	---	---	---	2	2	2	9	2	1	---	---	14
Morrow	5	9	14	9	5	3	11	4	---	---	---	5	2	2	3	---	3	4	6	1	3	---	---	14
Muskingum	4	21	25	13	12	7	18	1	3	---	1	7	---	2	---	3	4	3	14	3	1	4	25	25
Noble	3	3	6	4	2	3	3	---	3	---	---	11	---	---	3	2	1	3	1	---	---	---	---	6
Ottawa	10	21	31	21	10	9	22	5	3	3	3	3	1	1	3	5	5	3	11	13	3	1	31	31
Paulding	---	6	6	3	3	2	4	1	1	---	---	7	---	---	6	1	5	1	4	1	---	---	---	6
Perry	---	8	8	8	---	---	---	7	1	---	---	2	---	---	2	1	1	1	3	3	1	---	---	8
Pickaway	10	13	23	15	8	12	11	3	7	1	1	5	---	1	2	1	1	11	6	1	2	---	---	23
Pike	---	2	2	2	---	---	2	---	---	---	---	2	---	---	---	---	---	---	1	---	---	---	---	2

SUITS FOR DIVORCE—Continued.

Counties.	Suits, etc.										Custody of children.			Cause of divorce.						Total.				
	Pending July 1, 1877.	Brought within year.	Total.	Decided within year.	Still pending.	Brought by husband.	Brought by wife.	Alimony allowed wife.	Granted to husband.	Refused husband.	Dismissed husband.	Granted to wife.	Refused wife.	Dismissed wife.	Cases in which ques- tion was raised.	Given to father.	Given to mother.	Adultery.	Absence and neglect.		Cruelty.	Drunkenness.	Fraud.	Miscellaneous.
Portage	16	24	40	27	13	9	31	2	5	...	1	15	1	5	6	...	6	14	13	8	3	...	2	40
Preble	1	14	15	14	1	5	10	5	2	...	2	9	...	1	1	6	6	4	5	2	4	...	...	15
Putnam	6	6	12	11	1	2	10	3	1	...	1	6	...	2	3	3	3	3	19	5	...	...	...	12
Richland	14	21	35	14	21	8	27	3	5	...	...	7	...	2	...	...	3	8	19	6	...	1	...	35
Ross	8	14	22	11	11	8	14	10	3	1	2	4	...	1	...	3	8	9	4	1	...	...	...	22
Sandusky	2	26	28	20	8	7	21	2	4	...	3	12	...	1	2	5	5	2	7	4	6	...	9	28
Scioto	8	6	14	13	1	3	11	...	...	1	1	6	...	4	...	...	1	11	7	1	...	...	1	14
Seneca	11	30	41	41	...	15	26	5	11	...	5	17	...	2	...	4	9	6	25	9	1	...	...	41
Shelby	7	6	13	4	9	6	7	...	...	1	1	...	...	2	...	...	...	3	5	4	...	1	...	13
Stark	30	39	69	51	18	19	50	16	14	...	2	26	...	9	10	2	8	17	20	26	5	...	1	69
Summit	16	42	58	44	14	19	39	16	12	...	3	16	1	12	...	9	9	14	10	2	...	1	22	58
Trumbull	28	35	63	30	33	18	45	12	5	1	3	13	1	7	10	2	8	6	32	7	15	1	2	63
Tuscarawas	4	25	29	17	12	13	16	1	4	...	3	5	...	5	7	1	6	8	15	3	2	1	...	29
Union .....	...	20	20	14	6	5	15	...	3	...	1	6	...	3	2	...	1	1	15	1	3	...	...	20
Van Wert	3	17	20	11	9	8	12	...	6	...	5	...	...	2	...	...	4	8	8	2	...	...	2	20
Vinton	5	12	17	13	4	10	7	1	5	...	3	3	...	2	...	...	4	4	8	4	...	...	1	17
Warren	6	19	25	11	14	7	18	2	1	...	1	8	...	...	1	5	1	10	2	...	...	...	12	25
Washington	16	15	31	28	3	6	25	6	5	...	1	15	1	6	9	9	7	7	10	13	1	...	...	31
Wayne	8	16	24	15	9	6	18	2	5	...	1	6	...	3	7	2	5	6	13	4	1	...	...	24
Williams	6	14	20	19	1	10	10	4	5	...	3	10	...	...	1	8	1	4	12	3	...	1	...	20
Wood	6	27	33	29	4	7	26	5	7	...	...	17	...	6	13	...	7	2	15	10	3	3	...	33
Wyandot	6	19	25	21	1	11	14	4	9	2	...	13	...	...	12	3	9	8	13	2	...	...	...	25
Totals	1349	2024	3373	1997	1376	990	2383	439	428	35	105	1004	39	326	430	92	475	729	1310	735	348	64	187	3373

TABLE SHOWING THE NUMBER AND NATIVITY OF PERSONS NATURALIZED IN OHIO FOR THE YEAR ENDING MARCH 31, 1873, AS REPORTED BY THE PROBATE JUDGES OF EACH COUNTY.

Counties.	Nativity of persons naturalized.														Total.
	Austria.	British America and Canada.	Denmark.	England and Wales.	France.	Germany.	Holland and Belgium.	Ireland.	Italy.	Russia.	Scotland.	Sweden and Norway.	Switzerland.	All others.	
Adams.....	10	1	3	.....	.....	.....	.....	.....	.....	.....
Allen.....	1	5	.....	3	.....	2	.....	.....	.....	.....	.....	.....	.....
Ashland.....
Ashtabula.....	2	.....	6	.....	.....	.....	7	.....	.....	.....	.....	.....	.....	.....
Athens.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Anglaize.....	18	.....	.....	.....	.....	.....	.....	.....	.....	.....
Belmont.....	10	.....	10	.....	6	.....	.....	.....	.....	.....	.....	.....
Brown.....	1	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
Butler.....	9	.....	1	.....	1	2	.....	2	.....	.....
Carroll.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Champaign.....	4	.....	6	.....	.....	.....	.....	.....	.....	.....
Clarke.....	2	.....	1	.....	16	.....	4	.....	.....	.....	.....	1	.....	.....
Clermont.....	6	.....	1	.....	.....	.....	.....	.....	.....	.....
Clinton.....	2	.....	.....	.....	.....	.....	.....	.....
Columbiana.....	1	.....	11	.....	7	.....	17	1	.....	1	.....	.....	1	.....
Coshocton.....	2	.....	.....	5	1	3	.....	2	.....	.....	.....	.....	3	4	.....
Crawford.....	7	.....	.....	.....	.....	.....	.....	1	12	.....
Cuyahoga.....	40	13	1	58	.....	137	5	49	1	3	15	.....	3	1	.....
Darke.....	1	9	.....	4	.....	.....	.....	.....	.....	.....	.....
Defiance.....	9	.....	.....	1	11	2	.....	.....	.....	.....	.....	1	.....	.....
Delaware.....	3	.....	4	.....	6	.....	.....	.....	.....	.....	.....	.....
Erie.....	2	.....	2	.....	28	.....	2	.....	.....	1	1	.....	.....	.....
Fairfield.....	14	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fayette.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
Franklin.....	17	.....	35	.....	21	1	.....	2	.....	1	.....	.....

NATURALIZATIONS IN OHIO—Continued.

Nativity of persons naturalized.

Counties.	Austria.	British America and Canada.	Denmark.	England and Wales.	France.	Germany.	Holland and Bel- gium.	Ireland.	Italy.	Russia.	Scotland.	Sweden and Nor- way.	Switzerland.	All others.	Total.
Fulton.....	1	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	2	.....	6
Gallia.....	3	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	5
Geauga.....	2	.....	4	.....	1	.....	.....	.....	.....	.....	1	.....	.....	8
Greene.....	1	.....	.....	.....	1
Guernsey.....	3	.....	.....	.....	.....	.....	.....	.....	.....	6
Hamilton.....	5	9	1	20	5	463	6	74	1	4	3	2	5	9	607
Hancock.....	8	.....	.....	.....	.....	.....	.....	.....	.....	8
Hardin.....	2	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
Harrison.....	2	.....	.....	3	.....	.....	.....	1	.....	4	.....	22
Henry.....	14	.....	.....	.....	.....	.....	.....	.....	.....	16
Highland.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	2	.....	3
Hocking.....	1	.....	.....	.....	.....	.....	.....	1
Holmes.....	2	2	.....	2	2	.....	.....	4	.....	.....	.....	15
Huron.....	2	.....	5	.....	4	.....	.....	.....	.....	.....	.....	20
Jackson.....	1	.....	3	.....	13	.....	3	.....	.....	.....	.....	.....	.....	6
Jefferson.....	1	.....	7	.....	15	1	12	.....	.....	3	.....	.....	1	40
Knox.....	8	.....	2	.....	4	.....	1	.....	.....	.....	.....	15
Lake.....	1	.....	3	.....	.....	.....	4	.....	.....	.....	.....	.....	1	9
Lawrence.....	4	.....	13	.....	6	.....	.....	.....	.....	.....	.....	23
Licking.....	11	1	5	.....	1	.....	.....	1	.....	1	.....	20
Logan.....	3	.....	.....	.....	.....	.....	.....	.....	.....	5
Lorain.....	1	.....	14	1	22	3	3	.....	.....	1	.....	.....	.....	43
Lucas.....	25	9	132	6	37	.....	.....	3	2	17	.....	285
Madison.....	5	45	4	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	3
Madison.....
Mahoning.....	4	.....	26	1	15	.....	36	.....	.....	7	.....	.....	3	91
Marion.....	3	.....	2	.....	9	.....	7	.....	.....	.....	.....	.....	.....	22

[illegible]

TABLE SHOWING THE NUMBER OF LETTERS OF GUARDIANSHIP ISSUED IN OHIO FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	Letters issued.	Children included in same.	Idiots included in same.	Insane persons included in same.	Imbecile persons included in same.
Adams	28	55	.....	2	1
Allen	42	61	3	3	1
Ashland	42	61	.....	5	5
Ashtabula	26	34	.....	2	4
Athens	39	79	1	2	.....
Anglaize	30	76	.....	.....	.....
Belmont	34	40	1	1	3
Brown	27	56	.....	2	3
Butler	52	92	.....	1	6
Carroll	21	30	.....	2	1
Champaign	34	47	.....	3	2
Clarke	37	67	.....	3	1
Clermont	35	58	.....	.....	2
Clinton	35	70	.....	1	3
Columbiana	52	56	1	7	11
Coshocton	27	52	.....	.....	1
Crawford	30	47	.....	2	4
Cuyaboga	168	275	.....	15	9
Darke	57	111	.....	.....	.....
Defiance	23	61	.....	.....	.....
Delaware	34	50	.....	2	1
Erie	26	55	.....	1	4
Fairfield	34	63	.....	2	3
Fayette	12	22	.....	1	1
Franklin	134	121	.....	6	5
Fulton	14	21	.....	.....	1
Gallia	24	47	.....	.....	1
Geauga	13	14	.....	1	2
Greene	35	43	.....	7	1
Guernsey	23	41	.....	.....	.....
Hamilton	282	554	16	15	1
Hancock	45	66	.....	4	5
Hardin	25	47	1	2	1
Harrison	24	39	.....	.....	3
Henry	19	31	.....	1	4
Highland	33	54	.....	.....	1
Hocking	21	37	.....	1	1
Holmes	19	36	.....	1	1
Huron	32	58	.....	2	.....
Jackson	18	32	.....	1	.....
Jefferson	26	42	.....	2	5
Knox	54	77	.....	3	4
Lake	16	25	.....	3	1
Lawrence	19	36	.....	.....	.....
Licking	49	76	.....	3	7
Logan	37	59	1	4	3
Lorain	47	88	.....	3	3
Lucas	34	61	.....	4	.....
Madison	20	37	.....	1	.....
Mahoning	29	46	.....	2	1
Marion	36	63	.....	.....	3
Medina	19	42	.....	.....	1
Meigs	32	61	1	3	.....
Mercer	33	71	.....	2	1
Miami	37	28	.....	1	8

LETTERS OF GUARDIANSHIP IN OHIO, ETC.—Continued.

Counties.	Letters issued.	Children included in same.	Idiots included in same.	Insane persons included in same.	Imbecile persons included in same.
Monroe	26	37	.....	1	6
Montgomery	49	94	.....	5	5
Morgan	12	17	.....	1	5
Morrow	12	21	.....	1	1
Muskingum	45	57	1	5	4
Noble	21	31	1	2	.....
Ottawa	12	22	.....	.....	.....
Panlding	22	33	.....	.....	.....
Perry	20	30	.....	1	.....
Pickaway	23	37	.....	.....	2
Pike	24	41	.....	3	.....
Portage	32	35	.....	6	4
Preble	27	46	.....	2	3
Putnam	21	47	.....	.....	1
Richland	41	61	.....	3	5
Ross	57	95	.....	3	4
Sandusky	30	48	.....	1	4
Scioto	21	25	3	5	.....
Seneca	43	77	.....	1	5
Shelby	38	81	1	2	5
Stark	72	97	.....	4	12
Summit	38	65	.....	4	1
Trumbull	45	65	.....	4	3
Tuscarawas	31	58	.....	8	2
Union	19	39	2	.....	.....
Van Wert	14	30	.....	.....	.....
Vinton	11	16	.....	1	.....
Warren	30	41	.....	3	5
Washington	30	61	.....	2	.....
Wayne	55	85	.....	3	6
Williams	26	47	.....	2	3
Wood	34	44	4	5	1
Wyandot	27	37	.....	2	5
Totals	3,207	5,291	37	209	222

TABLE SHOWING THE NUMBER OF ESTATES ADMINISTERED UPON, ETC., FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	Wills admitted to probate.	Letters testamentary.	Letters of administration issued.	Estates administered upon.
Adams	24	7	22	29
Allen	30	19	35	54
Ashland	30	24	29	53
Ashtabula	44	31	50	81
Athens	19	15	23	38
Auglaize	19	13	35	67
Belmont	41	39	45	45
Brown	32	24	35	35
Butler	44	26	133	164
Carroll	32	18	25	43
Champaign	18	11	30	41
Clarke	45	31	43	49
Clermont	40	21	59	80
Clinton	27	19	32	51
Columbiana	54	26	31	57
Coshocton	24	8	34	47
Crawford	30	8	32	40
Cuyahoga	168	70	182	252
Darke	15	13	63	76
Defiance	15	2	25	25
Delaware	30	27	41	.....
Erie	28	17	53	70
Fairfield	22	13	49	.....
Fayette	6	6	34	34
Franklin	79	32	87	119
Fulton	18	7	19	25
Gallia	25	13	15	28
Geauga	26	24	22	48
Greene	36	26	44	60
Guernsey	23	23	29	52
Hamilton	335	248	399	647
Hancock	11	11	46	57
Hardin	17	21	32	53
Harrison	28	25	26	51
Henry	7	1	30	16
Highland	31	24	30	30
Hocking	14	2	19	21
Holmes	24	12	34	.....
Huron	50	25	53	78
Jackson	15	14	21	31
Jefferson	40	28	57	85
Knox	53	53	59	112
Lake	30	18	27	45
Lawrence	16	4	29	.....
Licking	32	19	57	160
Logan	22	15	37	27
Lorain	77	30	67	97
Lucas	41	26	57	83
Madison	12	11	24	47
Mahoning	22	22	81	81
Marion	9	9	30	26
Medina	38	21	31	50
Meigs	34	21	25	46
Mercer	26	4	31	.....

TABLE SHOWING THE NUMBER OF ESTATES ADMINISTERED UPON, ETC.—Continued.

Counties.	Wills admitted to probate.	Letters testamentary.	Letters of administration issued.	Estates administered upon.
Miami	29	29	71	100
Monroe	14	7	16	23
Montgomery	14	42	89	131
Morgan	16	6	13	27
Morrow	10	10	38	48
Muskingum	60	28	61	85
Noble	12	5	.....	5
Ottawa	9	6	14	20
Paulding	6	6	19	19
Perry	17	11	27	38
Pickaway	17	12	41	27
Pike	13	9	17	26
Portage	46	35	35	84
Preble	24	21	38	58
Putnam	18	8	31	39
Richland	56	33	61	92
Ross	39	24	60	84
Sandusky	25	13	15	22
Scioto	24	12	36	48
Seneca	45	24	48	71
Shelby	31	13	70	16
Stark	54	36	56	92
Summit	52	31	57	88
Trumbull	50	36	81	117
Tuscarawas	44	22	39	61
Union	15	8	22	30
Van Wert	12	7	29	36
Vinton	9	7	22	29
Warren	28	13	37	61
Washington	38	18	44	60
Wayne	45	23	51	74
Williams	16	6	28	34
Wood	20	11	38	49
Wyandot	24	15	28	43
Totals	2897	1864	3995	5463

TABLE SHOWING THE NUMBER OF PERSONS SENT TO OHIO HOSPITALS FOR THE INSANE, AS REPORTED BY THE PROBATE JUDGE OF EACH COUNTY, FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	White.		Colored.		Total.
	Males.	Females.	Males.	Females.	
Adams	6	11	1	.....	18
Allen	7	4	.....	.....	11
Ashland	7	7	.....	.....	14
Ashtabula	8	5	.....	.....	13
Athens	8	8	1	.....	17
Auglaize	1	2	.....	.....	3
Belmont	13	15	.....	1	29
Brown	9	5	.....	.....	14
Butler	1	4	.....	.....	5
Carroll	1	1	.....	.....	2
Champaign	5	8	1	.....	14
Clark	6	3	3	2	14
Clermont	1	2	.....	.....	3
Clinton	5	6	.....	.....	11
Columbiana	5	6	.....	.....	11
Coshocton	3	6	.....	.....	9
Crawford	5	12	.....	.....	17
Cuyahoga	39	40	.....	.....	79
Darke	5	3	.....	.....	8
Defiance	3	3	.....	.....	6
Delaware	9	17	.....	.....	26
Erie	9	10	.....	.....	19
Fairfield	5	9	.....	1	15
Fayette	5	4	1	.....	10
Franklin	44	36	.....	.....	80
Fulton	2	6	1	.....	9
Gallia	8	4	.....	.....	12
Geauga	4	4	.....	.....	8
Greene	10	2	1	3	16
Guernsey	14	7	1	2	24
Hamilton	213	159	1	.....	373
Hancock	6	6	1	.....	13
Hardin	4	4	.....	.....	8
Harrison	1	3	.....	.....	4
Henry	1	1	.....	.....	2
Highland	4	14	.....	.....	18
Hocking	3	3	.....	.....	6
Holmes	5	7	.....	.....	12
Huron	12	15	.....	.....	27
Jackson	10	2	.....	.....	12
Jefferson	17	17	1	.....	35
Knox	5	6	.....	.....	11
Lake	5	5	.....	.....	10
Lawrence	4	1	.....	1	6
Licking	9	11	.....	.....	20
Logan	5	4	.....	.....	9
Lorain	5	7	.....	.....	12
Lucas	9	14	.....	.....	23
Madison	7	4	.....	.....	11
Mahoning	15	12	.....	.....	27
Marion	1	6	.....	.....	7
Medina	3	5	.....	.....	8
Meigs	5	11	1	2	19
Mercer	3	1	.....	.....	4
Miami	1	8	.....	.....	9

NUMBER OF PERSONS SENT TO OHIO HOSPITALS FOR THE INSANE—Continued.

Counties.	White.		Colored.		Total.
	Males.	Females.	Males.	Females.	
Monroe	8	2	.....	.....	10
Montgomery	15	14	.....	.....	29
Morgan	9	6	.....	.....	15
Morrow	8	2	.....	.....	10
Muskingum	25	26	.....	.....	51
Noble	7	3	.....	.....	10
Ottawa	3	2	.....	.....	5
Paulding .....	.....	.....	.....	.....	.....
Perry	3	10	.....	.....	13
Pickaway	1	5	.....	.....	6
Pike	4	3	1	.....	8
Portage	2	4	.....	.....	6
Preble	5	4	1	.....	10
Putnam	1	1	.....	.....	2
Richland	12	10	.....	.....	22
Ross	5	12	2	1	20
Sandusky	9	9	.....	.....	18
Scioto	4	7	.....	2	13
Seneca	11	13	.....	.....	24
Shelby	3	3	.....	.....	6
Stark	13	15	.....	.....	28
Summit	16	13	.....	.....	29
Trumbull	11	5	1	.....	17
Tuscarawas	9	17	.....	.....	26
Union	2	3	.....	.....	5
Van Wert	2	.....	.....	.....	2
Vinton	2	3	.....	.....	5
Warren	6	2	.....	.....	8
Washington	7	14	.....	.....	21
Wayne	13	15	.....	.....	28
Williams	3	6	.....	.....	9
Wood	4	3	.....	.....	7
Wyandot	2	4	.....	.....	6
Totals	826	812	19	15	1,672

TABLE SHOWING THE NUMBER OF BOYS SENT TO REFORM SCHOOLS BY THE PROBATE JUDGE OF EACH COUNTY IN OHIO FOR THE YEAR ENDING MARCH 31, 1878.*

Counties.	7 to 8.		8 to 9.		9 to 10.		10 to 11.		11 to 12.		12 to 13.		13 to 14.		14 to 15.		15 to 16.		Total.
	Lancaster.	Toledo.	Lancaster.	Toledo.	Lancaster.	Toledo.	Lancaster.	Toledo.	Lancaster.	Toledo.	Lancaster.	Toledo.	Lancaster.	Toledo.	Lancaster.	Toledo.	Lancaster.	Toledo.	
Ashland																			1
Ashtabula															1				1
Auglaize																			1
Belmont				1				1											1
Brown																			1
Butler																			1
Carroll																			1
Champaign																			1
Clarke																			1
Columbiana																			1
Coshocton																			1
Crawford			1																1
Cuyahoga		1			1	1	2	3	2	9	1	3	1	5	2		2		27
Darke																			5
Delaware						1									1	2			1
Erie															1				3
Fayette																			1
Franklin	3				2					4									38
Fulton		1			1										3				3
Gallia							1												1
Geauga					1														1
Greene																			1
Hamilton																			1
Hardin					4					5					4		3		29
Henry			2	1															1
Hocking																			1
Jackson											1								1
Jefferson																			1
																			4

TABLE SHOWING THE NUMBER OF GIRLS SENT TO REFORM SCHOOL AT WHITE SULPHUR SPRINGS BY THE PROBATE COURT OF EACH COUNTY IN OHIO FOR THE YEAR ENDING MARCH 31, 1878.*

Counties.	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	Total
Ashtabula						1		1		1
Belmont							2	2	2	6
Butler								1		1
Clarke								1		1
Coshcton	2	1								3
Crawford				1						1
Cuyahoga				1			1	3	1	6
Delaware	1	1					1			3
Franklin				1	1	3	1	2	3	11
Hamilton					2	1		1		4
Hardin									1	1
Highland								1		1
Knox				1						1
Licking	1		1				1			3
Lucas					2	2	3	1	1	9
Mahoning				1	1					2
Marion					1					1
Miami				1	1			1		3
Montgomery									1	1
Morrow		1								1
Muskingum						2	2			4
Perry						1				1
Pickaway							1			1
Richland								1	1	2
Ross						3	1	1		5
Sandusky					1					1
Scioto					1					1
Seneca					1					1
Shelby							1	2		3
Stark							1			1
Trumbull						1				1
Warren				1				1		2
Washington							1			1
Wood		1		1				1		3
Wyandot				1				1		2
Totals	4	4	1	9	11	13	16	21	10	89

* Fifty-three counties report "none sent by Probate Judges."

NUMBER OF BOYS AND GIRLS SENT TO REFORM SCHOOLS BY COURTS OF COMMON PLEAS FOR THE YEAR ENDING JUNE 30, 1878—BOYS SENT TO LANCASTER AND TOLEDO; GIRLS TO WHITE SULPHUR SPRINGS.

Counties.	7 to 8.		8 to 9.		9 to 10.		10 to 11.		11 to 12.		12 to 13.		13 to 14.		14 to 15.		15 to 16.		Total.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Butler
Greene	1	...	...	...	...	...	...	...	2	...
Hardin	1	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	4	...
Hocking	1	...	...	...	1	...
Holmes	1	...	...	...	...	...	2	...
Lawrence	1	...	...	...	...	...	...	...	1	...
Licking	2	...
Logan	2	...
Lucas	2	...
Madison	1	...	...	...	1	...
Mercer	1	...	...	...	...	...	1	...
Monroe	2	...
Muskingum	1	...	...	...	1	...
Paulding	1	...	...	...	1	...
Trumbull	1	...	...	...	...	...	...	...	...	...	...	3	...
Tuscarawas	3	...
Wood	2	...
Totals	1	...	...	...	1	...	3	...	2	...	2	...	5	...	17	...	31	...

ENUMERATION OF DEAF AND DUMB, BLIND, INSANE, AND IDIOTIC PERSONS IN THE SEVERAL COUNTIES OF THE STATE ON THE DAY PRECEDING THE SECOND MONDAY OF APRIL, 1878, AS REPORTED TO THE AUDITOR OF STATE.

Counties.	Deaf and dumb.	Blind.	Insane.	Idiotic.	Total.
Adams	6	13	9	11	39
Allen	20	8	9	11	48
Ashland	12	10	15	31	68
Ashtabula	13	18	20	38	89
Athens	10	5	2	19	36
Auglaize	8	9	9	6	32
Belmont	17	21	19	20	77
Brown	26	15	12	9	62
Butler	19	10	5	8	40
Carroll	13	2	5	8	28
Champaign	8	11	16	19	54
Clarke	5	11	12	8	36
Clermont	21	17	13	36	87
Clinton †					
Columbiana †					
Coshocton	13	11	4	16	44
Crawford	13	10	10	13	46
Cuyahoga	33	35	16	29	113
Darke	12	8	21	22	63
Defiance	9	3	9	7	28
Delaware †					
Erie	5	6	5	12	28
Fairfield	17	11	4	36	68
Fayette	13	3		2	18
Franklin	31	22	40	19	112
Fulton	9	11	5	14	39
Gallia †					
Geauga	6	6	12	16	40
Greene	17	7	28	30	82
Guernsey	10	9	5	26	50
Hamilton	75	74	*752	47	948
Hancock	12	7	9	12	40
Hardin †					
Harrison	11	5	8	8	32
Henry	6	4	5	9	24
Highland	23	9	5	25	62
Hocking	9	11	8	6	34
Holmes	5	14	5	6	30
Huron	9	13	18	11	51
Jackson	10	11	2	6	29
Jefferson	6	9	8	17	40
Knox	6	12	3	9	30
Lake	7	11	18	4	40
Lawrence	16	23	10	17	66
Licking	10	10	3	9	32
Logan	7	11	17	35	70
Lorain	14	21	8	4	47
Lucas	17	11	9	12	49
Madison	8	6	3	32	39
Mahoning	18	19	12	42	91
Marion	8	5	5	1	19
Medina	12	8	6	6	32
Meigs	14	25	8	21	68
Mercer		8	2	6	16
Miami	17	7	16	21	61
Monroe	21	8	13	9	51
Montgomery	24	20	12	14	70
Morgan	14	7	11	17	49
Morrow	7	7	11	9	34
Muskingum	21	21	2	9	53

ENUMERATION OF THE DEAF AND DUMB, ETC.—Continued.

Counties.	Deaf and dumb.	Blind.	Insane.	Idiotic.	Total.
Noble †.....	1	2	4	2	9
Ottawa.....	8	7	6	5	26
Paulding.....	14	15	14	21	64
Perry.....	22	25	20	18	85
Pickaway.....	7	2	2	6	17
Pike.....	7	15	34	9	65
Portage.....	9	6	15	15	45
Preble.....	12	5	10	8	35
Putnam.....	15	19	19	17	70
Richland.....					
Ross †.....	8	7	4	4	23
Sandusky.....	14	12	8	5	39
Scioto.....	13	11	6	7	37
Seneca.....	8	7	3	12	30
Shelby.....	32	19	40	23	114
Stark.....	21	10	21	28	83
Summit.....	21	18	15	14	68
Trumbull.....	24	10	8	24	66
Tuscarawas.....	18	1	3	7	29
Union.....	14	5	1	5	25
Van Wert.....	5	8	2	15	30
Vinton.....	18	16	19	11	64
Warren.....	33	26	20	27	106
Washington.....	16	22	19	14	71
Wayne.....					
Williams †.....	17	12	8	12	49
Wood.....	9	5	7	10	31
Wyandot.....					
Totals.....	1,142	974	1,505	1,199	4,820

* Of this number 669 are inmates of Longview Asylum.

† No report from Clinton, Columbiana, Delaware, Gallia, Hardin, Noble, Ross, and Williams counties.

**PAUPERISM AND ITS COST IN EACH COUNTY OF OHIO FOR CURRENT YEAR, AS REPORTED
BY COUNTY AUDITORS.**

Counties.	Total number of paupers in infirmary.	Number of paupers admitted to infirmary—current year.	Number of paupers otherwise supported by the county—current year.	Total cost of keeping paupers in infirmary—current year.	Total cost of keeping paupers otherwise supported by the county—current year.	Total cost.	Average cost of each pauper per day.
Adams	52	20	12	\$3,094	\$1,026	\$4,120	\$0 18
Allen	66	10	8	3,717	700	4,417	21
Ashland	40	8	185	3,229	5,623	8,852	21
Ashtabula	136	42	150	11,555	2,410	13,965	29
Athens	112	116	.....	8,158	6,580	14,738	20
Auglaize	35	52	3	2,210	295	2,505	21
Belmont	146	85	30	9,825	4,775	14,600	27
Brown	74	62	31	5,161	380	5,541	15
Butler	162	164	605	9,289	6,671	15,960	05
Carroll	41	7	5	1,590	150	1,740	33
Champaign	58	41	104	4,839	1,931	6,770	24
Clarke	100	95	.....	6,009	174	6,183	17
Clermont	154	89	10	7,518	1,603	9,121	15
Clinton	79	63	7	6,000	800	6,800	23
Columbiana	85	51	132	6,550	1,000	7,550	18
Coshocton	56	18	64	3,985	1,643	5,628	13
Crawford	51	41	41	4,715	959	5,704	20
Cuyahoga .....	.....	.....	.....	.....	10,068	10,068	†
Darke	109	62	.....	5,872	1,623	7,495	†
Defiance	30	6	.....	2,052	800	2,852	26
Delaware	80	53	293	4,500	8,681	13,181	10
Erie	61	55	325	5,250	7,050	12,300	24
Fairfield	120	75	34	10,000	2,000	12,000	27
Fayette	80	88	.....	8,035	4,787	12,812	†
Franklin	290	350	2,520	29,000	8,000	37,000	30
Fulton	67	5	.....	6,808	.....	6,808	27
Gallia	49	67	6	3,459	2,227	5,686	†
Geauga	51	13	27	3,295	861	4,156	22
Greene	127	108	6	10,966	2,495	13,461	24
Guernsey	50	35	6	3,134	3,315	6,449	†
Hamilton	607	349	7,549	39,091	17,824	56,915	17
Hancock	60	52	21	2,876	769	3,645	16
Hardin	66	13	.....	3,814	1,794	5,608	16
Harrison	92	20	50	5,319	4,429	9,748	19
Henry	40	15	10	5,000	1,000	6,000	16
Highland	40	5	25	2,119	1,918	4,037	17
Hocking	56	36	2	2,654	1,041	3,695	13
Holmes	39	10	20	3,283	561	3,844	24
Huron	81	5	.....	6,973	5,385	12,358	25
Jackson	51	77	500	4,830	7,005	11,835	19
Jefferson	83	72	210	5,083	3,940	9,023	17
Knox	66	12	6	4,248	1,543	5,791	17
Lake	45	7	47	4,095	991	5,086	24
Lawrence	66	135	287	3,188	3,189	6,377	14
Licking	159	54	45	10,323	1,719	12,042	17
Logan	60	47	95	4,037	1,340	5,377	†
Lorain	53	45	3	6,420	2,617	9,037	46
Lucas	80	95	269	4,106	7,141	11,247	.....
Madison	100	65	70	8,619	2,074	10,693	29
Mahoning	123	51	219	8,614	8,491	17,105	14
Marion	52	31	10	6,280	911	7,191	24

PAUPERISM AND ITS COST—Continued.

Counties	Total number of paupers in infirmary.	Number of paupers admitted to infirmary—current year.	Number of paupers otherwise supported by the county—current year.	Total cost of keeping paupers in infirmary—current year.*	Total cost of keeping paupers otherwise supported by the county—current year.*	Total cost.*	Average cost of each pauper per day.
Medina	57	6	.....	\$5,088	.....	\$5,088	†
Meigs	48	.....	269	2,463	\$4,918	7,381	\$0 14
Mercer	28	14	12	1,564	468	2,032	35
Miami	120	118	55	8,750	3,500	12,250	17
Monroe	51	25	12	2,593	446	3,039	13
Montgomery	195	142	20	21,930	2,833	24,763	19
Morgan	111	13	100	5,981	4,695	10,676	13
Morrow	32	16	.....	1,413	421	1,834	20
Muskingum ‡ .....	.....	.....	.....	.....	.....	.....	.....
Noble	81	32	58	3,313	3,016	5,329	16
Ottawa	21	38	11	2,872	857	3,729	15
Paulding	34	33	46	1,600	744	2,344	†
Perry	90	40	45	4,250	2,430	6,680	13
Pickaway	144	54	.....	17,955	.....	17,955	34
Pike	43	85	30	2,669	838	3,507	17
Portage	51	12	.....	4,662	545	5,207	28
Preble	65	69	4	6,076	600	6,676	28
Putnam	48	21	.....	3,507	1,892	5,399	21
Richland	67	33	170	5,666	2,650	8,316	†
Ross	146	121	25	10,377	1,789	12,166	19
Sandusky	48	6	150	4,205	4,126	8,331	24
Scioto	36	92	172	3,141	4,754	7,895	19
Seneca	48	31	§	4,904	955	5,859	24
Shelby	62	47	§	4,900	.....	4,900	21
Stark	§	§	§	¶	¶	11,683	†
Summit	86	44	285	3,532	6,076	9,608	15
Trumbull	97	90	163	5,471	3,000	8,471	13
Tuscarawas	128	75	120	5,034	2,197	7,231	08
Union	77	19	.....	4,588	.....	4,588	14
Van Wert	43	48	61	2,414	1,225	3,639	15
Vinton	62	16	15	4,624	1,879	6,503	23
Warren	112	120	31	6,652	770	7,422	13
Washington	68	17	240	4,090	15,588	19,648	30
Wayne	92	§	§	11,376	2,885	14,262	33
Williams	38	47	.....	2,226	740	2,966	16
Wood	64	150	225	4,380	1,327	5,707	14
Wyandot	44	§	§	2,773	1,451	4,224	17
Totals	7,136	4,740	16,427	\$517,816	\$243,954	\$772,425	.....

* Fractions omitted.

† Average cost not reported.

‡ Have no county infirmary.

§ Not reported.

¶ Number not reported.

¶ Amount not reported.

Greene	1	7	9	4	11	4	11	17	71	81	132	70	79	149	50
Hamilton			9	4	81	11	4	297	320	625	855	1004	1152	199	1,000 50
Hancock			1		2			4	29	6	35	39	84	109	926 75
Hardin			2		9			15	63	6	69	80	4	39	9,132 25
Harrison			1		4			4	63	4	67	49	84	57	407 50
Henry			1		4			5	17	2	19	23	1	24	935 50
Highland			1		2			3	37	2	39	37	5	42	304 55
Hocking			1		16			18	32	50	82	98	2	57	866 25
Holmes			1		7			20	33	21	54	69	5	100	936 30
Huron			2		7			6	6	6	8	8	8	8	141 25
Jackson			8		35			57	89	50	145	186	19	205	988 75
Jefferson			14		2			6	43	13	56	60	2	62	815 05
Knox			5		2			16	162	69	231	215	12	247	1,294 00
Lake			4		7			99	61	49	123	160	15	160	75
Lawrence			3		6			10	50	23	73	73	73	73	621 00
Licking			6		7			2	50	23	73	73	73	73	1,524 70
Lewis			2		25			99	61	49	123	160	15	160	50
Logan			15		11			2	58	74	49	123	160	15	1,500 00
Lucas			10		14			115	84	149	253	313	35	348	1,399 50
Madison			1		64			1	115	84	149	253	313	35	4,816 50
Marion			25		32			67	53	16	69	130	6	37	2,601 32
Martin			1		6			8	19	9	29	35	1	36	53
Melina			1		6			2	6	9	15	17	17	17	436 00
Mercer			4		9			2	6	9	15	17	17	17	375 00
Miami			2		8			1	7	7	14	13	2	15	1,320 45
Montgomery			26		27			53	33	53	7	60	84	9	1,841 59
Morgan			1		1			1	12	12	12	12	12	12	54
Morrow			7		1			1	12	12	12	12	12	12	157 75
Muskingum			1		1			1	12	12	12	12	12	12	4,645 25
Noble			13		27			53	130	35	163	209	9	218	50
Odessa			1		1			1	39	4	43	43	43	43	321 50
Ottawa			7		1			1	33	5	18	19	19	19	433 50
Perry			13		1			9	29	33	82	92	9	101	37
Pickaway			2		4			32	10	10	10	10	10	10	373 54
Pike			4		1			2	25	9	27	31	2	44	57
Portage			2		1			2	25	9	27	31	2	44	785 50
Putnam			3		6			11	20	15	21	63	11	74	756 90
Putnam			10		14			29	24	30	64	92	1	93	1,159 80
Randolph			2		1			1	25	13	38	38	1	39	509 75
Ross			3		10			42	99	34	63	99	6	105	771 40
Sadusky			6		9			9	31	27	59	47	13	60	642 00
Schofield			1		18			40	34	49	85	122	4	118	614 95
Scioto			1		13			16	61	41	102	114	4	118	45
Seneca			9		13			18	32	18	50	67	1	68	1,961 50
Shelby			1		3			4	53	6	59	59	4	63	890 00
Shelby			1		3			32	64	41	105	136	1	137	739 57
Stark			2		16			34	64	41	105	136	1	137	58
Summit			3		6			94	40	38	78	100	2	102	1,823 53
Tumblin			6		64			118	88	55	143	253	8	201	1,360 50
Tuscarawas			18		7			8	45	9	54	55	9	62	1,849 11
Union			1		7			8	45	9	54	55	9	62	52
Van Wert			1		7			8	45	9	54	55	9	62	86
									46	40	66	83	3	86	45
															707 50
															641 60

JAIL STATISTICS IN OHIO, AS REPORTED BY THE SHERIFF OF EACH COUNTY—Continued.

Counties.	Nativity of Prisoners.																	Color.		Cost.						
	Foreign.																									
	Austria.	British America and Canada.	Denmark.	England and Wales.	France.	Germany.	Holland and Belgium.	Ireland.	Italy.	Russia.	Scotland.	Spain.	Sweden and Norway.	Switzerland.	Other countries.	Unknown.	Total foreign and unknown.	Ohio.	Other States.	Total native.	Total No. white prisoners.	Total No. colored prisoners.	Total number of prisoners.	Average cost per day of keep- ing prisoners.	Total annual cost of keeping prisoners.	
Vinton	3	135	4	213	33	635	1	779	20	1	41	1	5	12	57	113	2013	3883	6299	7584	26	26	52	\$0 64	\$258 37	
Warren					1	2		3									6	43	49	45	10	53	70		1,214 03	
Washington				1													3	52	77	77	3	80	50		1,131 50	
Wayne																		1	59	1	57	2	59	62		1,433 72
Williams		1		6	5	7		14			1						34	30	58	88	122	57	122		608 00	
Wood		4				11		4									19	19	14	33	50	50	2		939 73	
Wyandot				1		1											2	63	5	68	68	70	62		555 75	
Totals	3	135	4	213	33	635	1	779	20	1	41	1	5	12	57	113	2013	3883	6299	7584	26	26	52	\$0 64	\$98,796 71	

* Total cost not reported.

ANNUAL REPORT OF THE SUPERINTENDENT OF THE OHIO INSTITUTION FOR THE EDUCATION OF THE DEAF AND DUMB FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.
Number of pupils in the institution November 15, 1877....	244	194	438
Number of pupils admitted during the year	49	30	79
Total number current year.....	293	224	517
Number discharged.....	43	38	81
Number died. None.			
Number remaining in the institution November 15, 1878..	250	186	436

NOTE.—No record of nativity of pupils.

AGE OF INMATES ADMITTED CURRENT YEAR.

Ages.	44	21	19	18	17	16	15	14	13	12	11	10	9	8	7	6
Males .....	.....	.....	1	.....	6	4	4	3	1	3	2	5	7	4	7	2
Females.....	1	1	.....	2	3	2	3	4	.....	.....	1	2	4	2	1	4

ANNUAL REPORT OF THE SUPERINTENDENT OF THE OHIO INSTITUTION FOR THE EDUCATION OF THE BLIND FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females	Total.	Nativity of inmates.		
				Ohio.	Other States.	Foreign countries.
Number of pupils in the institution November 15, 1877.....	67	74	141			
Number remaining in the institution November 15, 1878.....	86	85	171	131	28	12

ANNUAL REPORT OF THE SUPERINTENDENT OF THE OHIO INSTITUTION FOR THE EDUCATION OF IMBECILE YOUTH, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.
Number of pupils in the institution November 15, 1877.....			434
Number of pupils admitted during the year.....	47	31	78
Total number current year.....	303	209	512
Number discharged.....			28
Number died.....	6	3	9
Number remaining in the institution November 15, 1878..	285	191	476

NOTE.—Nativity of pupils not reported.

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Consumption.	Meningitis.	Convulsions.	Peritonitis.	Total number of deaths.
Males.....	3		2	1	6
Females.....	1	1	1		3

AGE OF INMATES ADMITTED CURRENT YEAR.

	6	7	8	9	10	11	12	13	14	15
Males.....	8	6	8	3	5	3	6	3	3	2
Females.....	5	4	4	2	5	3	2	2	2	2

ANNUAL REPORT OF THE SUPERINTENDENT OF THE OHIO SOLDIERS' AND SAILORS' ORPHANS' HOME, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.	Nativity. Ohio.
Number of pupils in the institution Nov. 15, 1877.....	364	240	604	604
Number of pupils admitted during the year.....	64	30	94	94
Total number current year.....	428	270	698	.....
Number discharged.....	54	26	80	.....
Number died.....		1	1	.....
Number remaining in the institution Nov. 15, 1878.....	351	249	600	.....

REMARKS.—The seventeen children absent from the Home November 15, 1878, are accounted for by leave of absence, etc.

Mortuary Record, November 15, 1877, to November 15, 1878.

	Consumption.	Total number of deaths.
Males.....		.....
Females.....	1	1

ANNUAL REPORT OF THE SUPERINTENDENT OF THE ATHENS ASYLUM FOR THE INSANE,
ATHENS, ATHENS COUNTY, OHIO, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.	Nativity of inmates.					
				Ohio.		Other States.		Unknown and foreign countries.	
				Males.	Females.	Males.	Females.	Males.	Females.
No. in the institution Nov. 15, 1877.....	257	292	549	146	171	35	47	61	47
No. admitted during the year.	99	113	212	59	70	19	21	7	6
Total number current year..	356	405	761	205	241	54	68	14	16
No. discharged recovered....	47	50	97	12	42	8	4	1	2
No. discharged improved....	8	8	16	.....	.....	.....	.....	.....	.....
No. discharged stationary..	20	17	37	13	13	9	2	3	5
No. died	20	17	37	12	9	4	6	2	1
No. remaining in the institution Nov. 15, 1878.....	261	313	574	.....	.....	.....	.....	4	2

REMARKS —The numbers discharged as recovered, improved, stationary, and died, represent those from the admitted of all years from the opening of the asylum, January 9, 1874.

Daily average for the year—males, 261 ; females, 310.

OCCUPATION AND CONDITION OF PATIENTS.

	Farmers.	Merchants.	Mechanics.	Ministers.	Lawyers.	Laborers.	Teachers.	Other occupations.	Condition of patients.			
									Married.	Single.	Widowed.	Unknown.
Males	36	3	16	1	1	26	2	14	43	45	4	7
Females .....	.....	.....	.....	.....	.....	.....	.....	.....	63	30	15	5

ANNUAL REPORT OF THE SUPERINTENDENT OF THE CLEVELAND ASYLUM FOR THE INSANE, NEWBURGH, OHIO, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.	Nativity of patients.					
				Ohio.		Other States.		Foreign countries	
				Males.	Females.	Males.	Females.	Males.	Females.
Number in the institution Nov. 15, 1877.....	269	282	551	123	131	60	60	83	94
Number admitted during the year	114	105	219	53	44	23	22	38	39
Total number under treatment current year.....	383	387	770	176	175	83	82	121	133
Number discharged as recovered	33	46	84	16	25	13	13	10	7
Number discharged as improved	20	20	40	8	11	6	7	5	3
Number discharged as unimproved	9	17	26	5	7	1	1	3	9
Number died	12	7	19	3	2	3	2	6	3
No. remaining in the institution Nov. 15, 1878	303	297	600	144	130	60	59	96	111

OCCUPATION AND CONDITION OF PATIENTS.

	Farmers.	Merchants.	Mechanics.	Ministers.	Lawyers.	Doctors.	Laborers.	Teachers.	Manufacturers.	Housekeepers.	Seamstresses.	Other occupations.	No occupation.	Condit'n of patients.			
														Married.	Single.	Widowed.	Unknown.
Males	125	21	23	1	3	1	84	2	4	.....	.....	93	23	156	202	21	8
Females .....	.....	.....	.....	.....	.....	.....	.....	7	.....	332	14	3	34	200	131	43	9

ANNUAL REPORT OF CLEVELAND ASYLUM—Continued.

CAUSE OF INSANITY.

	Hereditary.	Moral causes.	Constitutional diseases.	Diseases of nervous system.	Diseases of organs of circulation.	Diseases of digestive organs.	Diseases of generative organs.	Diseases of organs of locomotion.	Diseases of integumentary system.	Developmental diseases.	Injuries.	Alcoholism.	Self-abuse.	Unknown.
Males	61	54	4	18	1	3	.....	1	.....	2	12	36	38	151
Females..	61	80	3	2	1	13	64	.....	1	1	2	2	5	148

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Cause of death.								Total number of deaths.
	Paresis.	Acute man exhaustion.	Chronic man exhaustion.	Heart disease.	Softening brain.	Apoplexy.	Phthisis pulmon.	Pyæmia.	
Males	5	4	1	1	1	.....	.....	.....	12
Females .....	.....	.....	4	.....	.....	1	1	1	7

AGE OF PATIENTS ADMITTED CURRENT YEAR.

	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80
Males	11	14	17	20	13	6	5	9	8	6	2	2	1
Females	4	9	12	12	11	16	14	13	9	4	1	.....	.....

ANNUAL REPORT OF THE SUPERINTENDENT OF THE COLUMBUS ASYLUM FOR THE INSANE, COLUMBUS, OHIO, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.	Nativity of patients reported current year.					
				Ohio.		Other States.		Foreign countries.	
				Males.	Females.	Males.	Females.	Males.	Females.
Number of patients in the Institution Nov. 15, 1877..	387	428	815	320	327	100	120	156	140
Number of patients admitted during the year	201	210	411	.....	.....	.....	.....	.....	.....
Total number under treatment current year	588	638	1226	.....	.....	.....	.....	.....	.....
Number discharged as recovered	108	74	182	.....	.....	.....	.....	12	51
Number discharged as improved	24	45	69	.....	.....	.....	.....	.....	.....
Number discharged as unimproved	20	28	48	.....	.....	.....	.....	.....	.....
Number died	42	32	74	.....	.....	.....	.....	.....	.....
Number remaining in the institution Nov. 15, 1878..	391	459	850	.....	.....	.....	.....	.....	.....

Note.—The number of incurables is difficult to determine; will probably exceed 500.

OCCUPATION AND CONDITION OF PATIENTS.

Occupation.											Condition.			
	Farmers.	Merchants.	Mechanics.	Lawyers.	Doctors.	Laborers.	Manufacturers.	Telegraph operators.	Railroad operatives.	Other occupations.	Married.	Single.	Widowed.	Unknown.
Males	203	14	8	3	9	142	1	3	2	206	524	544	125	33
Females														

REPORT OF COLUMBUS ASYLUM—Continued.

CAUSE OF INSANITY.

	Hereditary.	Moral causes.	Zymotic diseases.	Diseases of nervous system.	Diseases of respiratory organs.	Diseases of digestive organs.	Diseases of urinary organs.	Diseases of generative organs.	Diseases of organs of locomotion.	Injuries.	Alcoholism.	Self abuse.	Opium.
Males	60	124	12	42	1	12	5	5	3	2	42	63	5
Females ...	106	133	11	31	1	2	.....	112	.....	.....	2	6	4

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Anemia.	Apoplexy.	Chronic hepatitis.	Cerebral congestion.	Diarrhœa.	Dysentery.	Embolism.	Endo carditis.	Epilepsy.	Exhaustion.	Fracture.	Gangrene.	Inanition.	Fall.	Leuco-cythemia.
Males .....	.....	3	1	.....	1	1	1	.....	1	4	.....	.....	4	.....	.....
Females	1	.....	1	1	.....	.....	.....	1	1	1	2	2	4	1	1

MORTUARY RECORD—Continued.

	Ataxia.	Maniacal exhaustion.	Old age.	Peritonitis.	Paralysis.	Peri caratitis.	Purpura.	Atrophy.	Pyæmia.	Softening of brain.	Suicide.	Typhoid fever.	Consumption.	Total number of deaths.
Males	1	5	5	1	2	.....	.....	.....	1	.....	.....	1	4	36
Females .....	.....	2	2	.....	1	1	1	1	.....	1	2	.....	10	33

AGE OF PATIENTS ADMITTED CURRENT YEAR.

	Under 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	Unknown.
Males	2	69	150	117	69	55	11	7	108
Females	2	46	152	101	77	42	11	5	202

ANNUAL REPORT OF THE SUPERINTENDENT OF THE DAYTON ASYLUM FOR THE INSANE,
DAYTON, OHIO, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.	Nativity of patients.					
				Ohio.		Other States.		Foreign countries and unknown— both sexes.	
				Males.	Females.	Males.	Females.		
No. of patients in the institution Nov. 15, 1877	207	231	438	*63	53	*21	23	155	† 44
No. admitted during year ..	138	121	259	.....	116	.....	44	.....	.....
Total No. under treatment current year	345	352	697	.....	.....	.....	.....	.....	.....
No. discharged recovered ..	35	22	57	.....	.....	.....	.....	.....	.....
No. discharged improved ..	16	9	25	.....	.....	.....	.....	.....	.....
No. discharged unimproved ..	6	2	8	.....	.....	.....	.....	.....	.....
No. died	25	14	39	.....	.....	.....	.....	.....	.....
No. remaining in the institution Nov. 15, 1878	262	305	567	.....	.....	.....	.....	.....	.....

* Deduct one from male column—transferred to Athens.

† Nativity unknown.

‡ Unknown.

REMARKS.—Number of incurables, ninety per cent. Reports as to causes, nativity, etc., are necessarily imperfect, having been made up from former records, which were the only available source of information.

OCCUPATION OF PATIENTS.

	Farmers.	Merchants.	Mechanics.	Laborers.	Other occupations.	No occupation, or unknown.
Males	61	2	1	37	12	25
Females .....	.....	.....	.....	.....	.....	.....

CAUSE OF INSANITY.

	Moral causes.	Zymotic diseases.	Diseases of nervous system.	Diseases of digestive organs.	Diseases of generative organs.	Miscellaneous diseases.	Self-abuse.	Unknown.
Males	14	4	10	2	.....	22	10	86
Females	24	2	3	2	12	5	1	62

REPORT OF DAYTON ASYLUM—Continued.

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Cause of death.											Total number of deaths.	
	Mania.	Paralysis	Apoplexy.	Consumption.	Dysentery.	Erysipelas.	Suicide.	Fever.	Hemorrhage, cerebral.	Delirium tremens.	Cancer.		Disease of heart.
Males	7	5	1	4	1	...	...	1	2	1	...	2	24
Females	5	...	2	5	...	1	1	...	...	...	1	...	15

AGE OF PATIENTS ADMITTED CURRENT YEAR.

	15 to 20.	25 to 30.	35 to 40.	45 to 50.	55 to 60.	65 to 70.	75 to 80.	80 to 85.	Unknown.
Males	7	50	53	49	43	23	10	2	17
Females .....	...	...	...	...	...	...	...	...	...

ANNUAL REPORT OF THE SUPERINTENDENT OF THE LONGVIEW ASYLUM FOR THE INSANE, CARTHAGE, HAMILTON COUNTY, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Females.	Total.	Nativity of patients.					
				Ohio.		Other States.		Foreign countries.	
				M.	F.	M.	F.	M.	F.
No. of patients in the institution November 15, 1877	313	333	646	...	...	...	...	...	...
No. of patients admitted during the year	98	90	188	36	30	20	13	42	47
Total number under treatment current year	411	423	834	...	...	...	...	...	...
No. discharged as recovered ..	41	26	67	...	...	...	...	...	...
No. discharged as improved ..	14	27	41	...	...	...	...	...	...
No. discharged as unimproved ..	7	11	18	...	...	...	...	...	...
No. died	32	16	48	...	...	...	...	...	...
No. remaining in the institution November 15, 1878	317	343	660	...	...	...	...	...	...

REPORT OF LONGVIEW ASYLUM—Continued.

OCCUPATION AND CONDITION OF PATIENTS.

	Occupation.							Condition.			
	Farmers.	Laborers.	Railroad operatives.	Housekeepers.	Seamstresses.	Other occupations.	No occupation.	Married.	Single.	Widowed.	Unknown.
Males	11	19	1	.....	.....	61	6	27	65	3	3
Females .....	.....	.....	.....	24	4	84	14	34	39	16	1

CAUSES OF INSANITY.

	Hereditary.	Moral causes.	Zymotic diseases.	Constitutional diseases.	Diseases of nervous system.	Diseases of generative organs.	Injuries.	Alcoholism.	Self-abuse.	Unknown.
Males	14	11	2	16	14	.....	5	16	19	2
Females	18	38	2	7	2	15	1	6	.....	1

MORTUARY RECORD FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Cause of death.									Total number of deaths.
	Apoplexy.	Debility.	Epilepsy.	Hemiplegia.	Maniacal exhaustion.	General paralysis.	Phthisis pulmonalis.	Pneumonia.	Senility.	
Males	1	3	5	.....	11	3	2	1	1	32
Females .....	.....	.....	5	1	3	2	3	1	1	16

AGE OF PATIENTS ADMITTED CURRENT YEAR.

	10 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.
Males	3	44	23	14	4	7	3
Females	7	25	26	17	6	8	1

ANNUAL REPORT OF THE SUPERINTENDENT OF THE OHIO REFORM SCHOOL, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.
Number admitted during the year	282
Total number current year, average	521
Number died	None.
Number remaining in the institution November 15, 1878*	494

* Age of inmates not reported.

ANNUAL REPORT OF THE SUPERINTENDENTS OF THE TOLEDO, OHIO, HOUSE OF REFUGE AND CORRECTION, FROM NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Males.	Total.	Nativity of inmates.			
			Ohio.	Other States.	Unknown.	Foreign Countries.
Number of inmates in the institution November 15, 1877	164	.....	83	7	8	6
Number of inmates admitted during the year	104	.....	.....	.....	.....	.....
Total number current year .....	.....	268	.....	.....	.....	.....
Number discharged and escaped	100	.....	.....	.....	.....	.....
Number died	3	.....	.....	.....	.....	.....
Number remaining in the institution November 15, 1878 .....	.....	165	.....	.....	.....	.....

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Cause of death.		Total number of deaths.
	Diphtheria.	Pneumonia.	
Males	2	1	3

AGE OF INMATES ADMITTED CURRENT YEAR.

	7	8	9	10	11	12	13	14	15
Males	1	3	9	16	21	10	8	21	15

ANNUAL REPORT OF THE WARDEN OF THE OHIO PENITENTIARY, COLUMBUS, OHIO, FROM
NOVEMBER 1, 1877, TO NOVEMBER 1, 1878.

	Males.	Females	Total.	Nativity of convicts.			No. convicts under life sen- tence.
				Ohio.	Other States.	Foreign countries.	
No. of convicts in the Peni- tentiary Nov. 1, 1877	1574	24	1598	338	341	146	*73
No. received during year ..	815	10	825	.....	.....	.....	.....
Total number current year ..	.....	.....	2423	.....	.....	.....	.....
No. discharged by pardon ..	137	1	138	.....	.....	.....	.....
No. discharged by expira- tion of sentence	613	7	620	.....	.....	.....	.....
No. escaped	7	.....	7	.....	.....	.....	.....
No. died	10	.....	10	.....	.....	.....	.....
No. transferred to Reform Farm, Insane Asylum, new trial, etc .....	.....	.....	15	.....	.....	.....	.....
No. remaining in the Peni- tentiary Nov. 1, 1878 .....	.....	.....	1633	.....	.....	.....	.....

* Among the 73 life prisoners are 2 females.

OCCUPATION AND CONDITION OF CONVICTS PREVIOUS TO CONVICTION.

	Farmers.	Merchants.	Mechanics.	Ministers.	Lawyers.	Doctors.	Laborers.	Teachers.	Telegraph operators.	Railroad opera- tives.	Housekeepers.	Seamstresses.	Other occupa- tions.	No occupation.	Condition.		
															Married.	Single.	Widowed.
Males	148	9	265	1	1	2	178	6	2	30	.....	.....	173	.....	275	513	27
Females ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	2	1	3	5	5	.....

CRIMES FOR WHICH SENTENCED.

Assault with intent to kill	5	Horse stealing	55
" with intent to rob	5	House breaking and larceny	4
" with intent to wound	3	Incest	3
" with intent to rape	16	In possession of counterfeit U. S. coin	1
" with intent to kill and rob	10	Killing domestic animal	1
Attempt to rape	7	Larceny and receiving stolen goods	2
" disfigure man	1	Murder, first degree	2
" burn jail	5	Murder, second degree	5
" burn property	1	Manslaughter	16
Aiding and inciting horse stealing ..	1	Malicious killing a mare	1
Aiding prisoners to escape	2	Making counterfeit U. S. notes	1
Abetting in burglary and larceny	1	Making and passing counterfeit U. S. notes ..	1
Accessory to abortion	1	Making and passing counterfeit U. S. coin ..	4
Arson	12	Obtaining goods under false pretenses	2
Aiding and abetting grand larceny ..	5	Obtaining money under false pretenses	5
Bigamy	10	Obstructing railroad	3
Burglary	114	Perjury	7
Burglary and larceny	210	Receiving stolen goods	2
Burglary and larceny and concealing stolen goods.	2	Robbery and larceny	2
Burglary and robbery	1	Robbery	32
Breaking in post-office	1	Robbery and entering storehouse to com. felony.	1
Cutting with intent to kill	5	Rape	8
Cutting with intent to wound	13	Stealing counterfeit money and other property ..	2
Concealing stolen goods	1	Shooting with intent to kill	5
Embezzlement	6	Shooting with intent to wound	20
Embezzling letters from U. S. Post-office ..	1	Stabbing with intent to kill	8
Forgery	24	Stabbing with intent to wound	6
Felonious shooting	1	Stealing a mule	1
Grand larceny	124		

REPORT OF OHIO PENITENTIARY—Continued.

MORTUARY RECORD, NOVEMBER 15, 1877, TO NOVEMBER 15, 1878.

	Lung disease.	Abscess of lungs	Diphtheria.	Brain disease.	Suicide by poison.	Abscess of brain by gunshot wound, self-inflicted.	Pulmonary consumption.	Apoplexy.	Killed by machinery.	Total number of deaths.
Males	1	1	1	1	1	1	2	1	1	10
Females										

AGE OF CONVICTS RECEIVED CURRENT YEAR.

	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 75
Males	114	431	160	54	30	12	2
Females							

VITAL STATISTICS

AND

NOSOLOGY OF OHIO.

TABLE SHOWING THE CONDITION OF DECEASED PERSONS AT TIME OF DEATH FOR THE YEAR ENDING MARCH 31, 1878, ARRANGED BY COUNTIES FROM THE REPORTS OF PROBATE JUDGES.

Counties.	Single.		Married.		Widowed.		Unknown.		Total.		Condition, age, and sex unknown.	Total number of deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Adams	55	33	41	19	7	9	3	2	106	63	.....	169
Allen	86	83	34	35	2	18	.....	.....	122	136	.....	258
Ashtabula	52	38	43	25	15	18	2	5	112	86	6	204
Ashland	45	54	69	57	19	41	.....	.....	136	132	.....	288
Athens	61	47	34	32	3	12	4	.....	102	91	1	194
Auglaize	82	64	48	25	2	3	2	1	134	93	.....	227
Belmont	109	102	61	52	18	27	.....	.....	188	181	.....	369
Brown	72	52	40	28	9	11	10	22	131	113	11	255
Butler	130	95	33	17	7	11	21	15	191	138	.....	329
Carroll	46	48	21	25	11	11	.....	.....	78	84	.....	162
Champaign	80	61	32	30	9	10	2	.....	123	101	.....	224
Clarke	81	63	48	34	4	11	1	5	134	113	19	266
Clermont	77	63	38	38	14	40	.....	.....	166	142	.....	308
Clinton	49	47	30	33	6	12	.....	.....	85	98	.....	183
Columbiana	174	163	94	51	28	16	4	2	300	232	.....	532
Coshocton	32	25	36	32	3	11	1	2	72	70	12	154
Crawford	97	75	49	37	8	20	.....	.....	154	132	.....	286
Cuyahoga	399	307	181	111	42	59	12	7	634	484	.....	1,118
Darke	95	112	48	60	15	20	.....	.....	159	192	.....	350
Defiance	62	57	33	20	12	7	.....	.....	107	84	.....	191
Delaware	86	45	45	30	16	20	1	.....	148	95	10	253
Erie	60	50	42	23	6	9	.....	4	108	86	10	204
Fairfield	69	64	46	41	13	14	1	2	120	121	.....	250
Fayette	62	42	21	14	7	2	.....	1	90	59	6	155
Franklin	143	142	84	68	19	19	21	14	267	243	6	516
Fulton	34	43	24	23	3	2	12	3	73	71	.....	144
Gallia	36	31	29	30	12	8	5	1	82	70	.....	152
Geauga	31	14	43	19	11	17	2	.....	77	50	.....	127

Greene	59	78	52	43	11	18	4	2	126	141	1	268
Guernsey	36	51	52	24	17	14	.....	.....	105	81	.....	194
Hamilton	817	729	329	265	104	141	187	169	1,437	1,304	37	2,778
Hancock	58	60	39	40	3	11	5	3	105	114	.....	219
Hardin	76	64	29	28	7	5	5	.....	117	97	.....	214
Harrison	46	43	35	21	8	3	.....	.....	89	07	.....	156
Henry	42	39	15	8	5	8	9	13	71	68	.....	139
Highland	88	69	32	43	9	90	15	2	144	134	.....	278
Hocking	51	47	32	23	3	9	.....	3	86	82	.....	108
Holmes	54	53	24	24	12	9	3	1	93	87	.....	180
Huron	75	51	63	47	25	26	.....	.....	163	124	.....	287
Jackson	60	64	29	27	1	11	.....	.....	90	102	.....	192
Jefferson	42	40	59	31	4	7	.....	.....	105	78	.....	123
Knox	63	56	39	31	16	13	.....	.....	118	100	.....	218
Lake	28	21	30	22	5	11	.....	.....	141	54	.....	117
Lawrence	117	91	20	21	4	7	.....	.....	141	119	.....	260
Licking	89	92	63	60	6	22	.....	.....	158	174	.....	332
Logan	79	61	31	30	10	14	1	4	121	109	.....	230
Lorain	74	65	49	58	29	29	.....	2	152	155	2	369
Lucas	225	171	116	76	16	15	.....	.....	357	262	.....	619
Madison	44	50	28	17	6	9	.....	.....	78	76	.....	154
Mahoning	79	65	60	41	9	14	9	2	157	123	.....	290
Marion	54	58	22	22	7	11	.....	.....	83	91	.....	174
Medina	34	29	53	40	5	20	.....	.....	92	89	.....	181
Meigs	53	69	48	36	6	18	.....	.....	107	123	.....	210
Mercer	66	59	18	25	6	8	6	3	96	95	.....	191
Miami	101	68	57	38	5	9	5	3	168	118	.....	246
Monroe	69	61	38	37	6	14	.....	.....	113	112	.....	225
Montgomery	354	207	179	104	41	38	.....	.....	574	349	.....	923
Morgan	33	39	25	31	7	13	.....	.....	65	84	.....	149
Morrow	54	45	42	26	10	16	2	1	108	88	.....	196
Muskingum	109	85	93	49	15	27	16	7	233	168	.....	401
Noble	33	22	25	17	6	9	1	1	65	49	.....	114
Ottawa	51	33	12	14	5	10	4	4	72	61	.....	133
Paulding	42	64	17	19	2	1	6	5	67	89	.....	156
Perry	74	57	31	36	7	10	1	2	113	105	.....	218
Pickaway	52	63	33	34	6	15	1	1	92	113	14	219
Pike	.....	.....	.....	.....	.....	.....	.....	.....	96	62	.....	158
Portage	34	34	43	50	11	29	3	1	91	114	.....	205
Preble	54	54	39	51	8	20	.....	1	104	126	.....	230
Putnam	68	56	34	31	7	4	1	2	110	93	.....	203
Richland	58	50	42	45	5	17	6	2	111	117	2	230

TABLE SHOWING THE CONDITION OF DECEASED PERSONS—Continued.

Counties.	Single.		Married.		Widowed.		Unknown.		Total.		Condition, age, and sex unknown	Total number of deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Ross	96	94	60	52	12	24	.....	.....	168	170	.....	338
Sandusky	93	80	53	34	13	13	.....	.....	159	127	.....	286
Scioto	101	99	44	28	15	18	.....	.....	161	145	.....	306
Seneca	66	63	52	37	7	16	.....	.....	125	122	.....	247
Shelby	65	58	38	40	16	14	.....	.....	123	114	.....	237
Stark	119	100	63	61	34	36	.....	.....	222	201	.....	423
Summit	82	58	67	40	9	20	.....	.....	159	119	.....	283
Trumbull	105	67	73	56	32	35	.....	.....	210	161	.....	371
Tuscarawas	114	84	64	52	7	11	.....	.....	188	155	.....	359
Union	55	60	37	31	9	7	.....	.....	101	99	.....	200
Van Wert	58	58	33	43	3	6	.....	.....	99	119	.....	231
Vinton	29	25	30	16	3	5	.....	.....	74	58	.....	151
Warren	59	76	29	31	27	15	.....	.....	125	134	.....	299
Washington	86	86	74	54	25	40	.....	.....	185	182	.....	367
Wayne	64	44	63	46	5	14	.....	.....	132	104	.....	236
Williams	71	58	32	35	8	13	.....	.....	111	106	.....	221
Wood	83	81	39	43	12	14	.....	.....	134	138	.....	277
Wyandot	33	34	20	29	15	12	.....	.....	68	75	.....	143
Totals	7,478	6,466	4,352	3,431	1,048	1,479	433	376	13,387	11,514	239	25,440

*Condition not reported.

TABLE EXHIBITING THE DEATHS AT EACH AGE, NUMBER OF DEATHS IN EACH COUNTY, AND TOTAL NUMBER OF DEATHS IN OHIO, FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	Stillborn.		Under 1.		1 to 2.		2 to 3.		3 to 4.		4 to 5.		5 to 10.		10 to 15.		15 to 20.		20 to 25.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
Adams.....	3	3	10	9	6	4	...	4	4	...	...	...	6	3	1	2	6	5	3	3
Allen.....	7	8	39	36	7	10	3	6	4	3	3	2	9	2	1	3	8	5	2	5
Ashtabula.....	1	1	15	13	1	2	2	2	1	1	3	1	9	5	3	4	4	2	9	9
Ashland.....	...	...	14	15	6	...	3	3	4	4	2	2	9	11	3	6	5	4	3	3
Athens.....	...	...	17	13	6	4	1	4	4	4	2	2	8	4	3	7	7	4	7	7
Auglaize.....	...	...	33	25	13	8	4	4	4	4	2	2	6	9	1	1	2	3	4	5
Belmont.....	4	1	29	27	16	12	9	4	2	3	5	3	5	13	2	9	10	9	8	6
Brown.....	1	...	18	10	9	5	2	4	3	1	3	1	4	4	1	7	6	6	3	6
Butler.....	...	...	33	30	14	9	12	6	11	4	11	6	6	3	4	3	9	10	18	12
Carroll.....	4	...	9	10	4	1	2	4	3	3	4	5	4	6	3	3	2	4	1	7
Champaign.....	6	...	27	22	6	2	4	4	7	2	2	2	5	8	6	3	6	7	4	8
Clarke.....	2	...	22	23	10	7	3	3	4	1	4	4	5	6	6	3	2	8	11	7
Clermont.....	6	1	21	24	11	7	3	3	5	3	5	3	6	2	3	1	6	5	7	12
Clinton.....	1	1	18	16	2	3	3	3	2	1	1	1	5	2	3	4	3	10	13	14
Columbiana.....	6	4	56	39	15	18	6	3	10	5	1	7	17	15	8	8	15	11	16	16
Coshocton.....	...	...	15	9	3	1	2	2	1	2	2	2	4	3	3	3	1	1	2	2
Crawford.....	2	2	33	18	10	7	6	4	5	6	7	5	16	19	5	2	4	5	6	11
Cuyahoga.....	1	1	120	94	53	39	26	17	32	15	25	18	58	57	16	23	25	25	18	17
Darke.....	7	4	35	44	11	11	5	11	1	4	6	4	12	7	9	9	12	4	10	10
Defiance.....	7	2	16	19	10	16	5	2	4	2	2	2	9	9	2	6	1	4	6	9
Delaware.....	4	...	27	12	6	1	4	2	6	3	4	1	13	8	5	3	9	3	6	13
Erie.....	...	...	26	18	5	5	5	2	3	2	3	2	5	5	7	5	4	2	2	5
Fairfield.....	3	1	16	28	1	...	2	3	7	5	3	1	10	7	4	3	2	2	4	6
Fayette.....	...	...	42	46	2	4	2	1	3	4	3	2	6	4	2	4	4	5	4	4
Franklin.....	1	...	10	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fulton.....	3	3	13	14	7	15	13	12	5	11	9	4	17	16	6	15	12	13	11	10
Gallia.....	...	...	17	16	3	4	1	2	4	1	1	1	2	2	1	2	2	3	2	4
Geauga.....	...	...	6	...	1	3	3	1	...	1	...	...	...	...	...	...	...	...	...	...
Greene.....	1	2	20	27	7	4	3	4	2	2	1	7	3	2	2	5	5	3	3	4
Guernsey.....	...	...	8	6	2	...	...	9	1	1	1	1	3	9	...	...	2	5	3	9

DEATHS AT EACH AGE, NUMBER OF DEATHS IN EACH COUNTY, ETC.—Continued.

Counties.	Stillborn.		Under 1.		1 to 2.		2 to 3.		3 to 4.		4 to 5.		5 to 10.		10 to 15.		15 to 20.		20 to 25.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
Hamilton.....	4	26	315	262	122	75	47	73	42	53	15	45	57	51	25	24	26	29	53	59
Hancock.....	4	3	14	20	10	11	10	11	6	4	4	2	2	2	1	1	4	3	6	5
Hardin.....	1	...	33	34	14	9	4	6	3	3	3	...	1	4	3	...	2	3	1	4
Harrison.....	1	...	9	10	9	5	3	3	3	4	4	...	11	5	...	...	3	3	1	1
Henry.....	5	1	7	10	6	6	5	3	...	...	2	1	5	6	4	3	3	4	1	6
Highland.....	6	5	25	20	5	5	4	4	5	1	3	3	2	2	4	6	13	9	7	16
Hocking.....	2	2	25	21	1	3	5	...	3	4	2	2	4	3	...	...	3	3	5	3
Holmes.....	2	1	7	9	14	11	3	3	3	3	2	2	3	1	7	9	10	9	5	2
Huron.....	1	...	26	16	10	6	5	7	2	2	4	...	4	2	6	2	2	2	4	6
Jackson.....	3	...	28	27	5	9	2	3	2	...	1	...	6	8	3	3	2	4	5	11
Jefferson.....	...	2	15	9	5	6	3	4	2	...	...	...	3	5	3	3	1	5	2	3
Knox.....	...	...	9	13	6	3	4	3	4	...	...	...	1	7	7	4	7	12	3	7
Lake.....	...	...	7	2	1	...	...	...	...	...	...	...	1	3	...	...	1	5	...	...
Lawrence.....	3	4	53	43	13	10	9	8	6	4	3	3	4	11	8	3	3	6	5	8
Licking.....	4	4	28	22	7	7	7	7	7	4	3	2	6	10	4	9	10	8	5	11
Logan.....	2	...	18	21	6	8	5	4	7	1	1	2	18	7	7	5	6	5	2	7
Lorain.....	5	7	15	15	10	9	7	7	8	3	2	1	19	4	5	12	10	11	13	8
Lucas.....	10	9	59	66	30	12	18	8	11	12	8	8	19	14	5	6	7	5	4	9
Madison.....	1	1	11	11	4	6	2	6	2	4	3	5	5	4	3	4	2	6	2	4
Mahoning.....	...	...	29	15	14	4	6	5	1	2	4	5	6	16	2	2	8	8	6	7
Marion.....	...	...	22	14	4	7	5	7	3	...	...	...	12	3	5	5	5	1	3	5
Medina.....	...	1	5	9	1	2	3	3	1	1	3	1	2	3	4	2	3	4	1	5
Meigs.....	4	1	16	20	8	12	8	6	1	...	...	...	1	4	1	2	1	13	4	7
Mercer.....	...	...	27	23	10	9	6	2	2	2	1	2	5	6	2	1	4	5	3	9
Miami.....	1	1	46	26	11	3	6	1	5	4	1	4	3	8	2	3	5	4	11	7
Monroe.....	8	3	29	17	9	5	2	5	3	2	2	2	4	3	8	1	4	3	6	7
Montgomery.....	26	14	79	74	23	16	12	11	8	10	9	6	23	10	12	9	9	23	19	23
Morgan.....	2	1	11	9	4	3	2	3	...	1	9	2	2	3	1	...	4	5	2	5
Morrow.....	3	...	14	18	7	6	3	6	2	1	1	1	8	6	2	2	3	4	6	3
Newburg.....	2	...	32	15	13	5	8	18	4	6	6	2	13	11	3	4	5	9	17	16
Noble.....	...	...	14	6	4	...	...	2	...	1	...	...	4	...	1	...	4	...	2	3

DEATHS AT EACH AGE, NUMBER OF DEATHS IN EACH COUNTY, ETC.—Continued.

Counties.	25 to 30.		30 to 35.		35 to 40.		40 to 45.		45 to 50.		50 to 55.		55 to 60.		60 to 65.		65 to 70.		70 to 75.		75 to 80.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Adams	5	5	1	2	4	5	7	3	4	3	1	3	10	2	8	6	6	3	9	2	9	2
Allen	5	9	4	3	2	5	1	2	2	3	3	7	1	2	6	3	3	3	3	1	5	1
Ashland	6	3	4	3	1	2	1	3	1	4	2	2	6	5	9	4	10	6	5	3	5	3
Ashtabula	3	2	2	6	3	7	5	4	4	1	10	7	6	4	3	9	12	14	13	9	9	2
Athens	6	6	3	5	2	1	4	2	4	3	2	7	2	1	4	3	5	8	3	4	2	1
Auglaize	7	1	3	5	2	4	2	2	7	8	4	3	4	11	4	1	6	4	6	6	1	1
Belmont	9	13	6	7	5	10	8	8	7	6	9	4	3	5	5	8	12	11	4	9	3	3
Brown	7	11	10	6	3	7	5	6	2	6	2	6	6	12	4	15	4	7	6	3	3	3
Butler	7	3	7	3	2	9	6	6	8	5	6	4	9	4	5	4	6	2	5	7	6	5
Carroll	3	3	2	6	2	2	3	1	3	2	3	3	1	1	2	1	5	7	4	8	5	5
Champaign	2	6	3	8	1	3	4	1	3	2	3	2	2	2	6	7	4	3	4	7	8	5
Clarke	5	7	1	5	2	4	2	5	6	1	7	2	5	7	2	6	10	4	4	6	4	6
Clermont	2	6	5	4	3	6	3	6	5	2	4	10	14	6	8	7	15	5	6	11	6	11
Clinton	5	6	4	3	5	1	9	10	13	4	15	8	15	12	11	8	3	12	10	11	9	9
Columbiana	12	14	11	9	9	6	3	9	13	2	3	3	3	3	6	5	4	4	6	2	1	1
Coshocton	3	5	3	2	6	3	2	3	2	2	4	2	6	8	3	9	9	1	4	6	1	8
Crawford	4	3	1	5	4	3	7	3	5	3	4	2	6	8	3	9	1	4	6	2	1	1
Cuyahoga	14	19	23	16	25	14	14	18	20	8	25	8	21	11	25	14	24	17	24	11	16	18
Darke	3	13	4	11	3	6	6	5	4	8	2	5	7	2	8	4	6	7	6	7	8	5
Defiance	4	3	2	1	4	3	3	3	5	5	3	2	3	3	2	1	1	6	2	6	2	2
Delaware	4	5	3	1	5	4	3	1	3	3	3	5	3	3	4	6	5	4	6	3	3	3
Erie	1	5	1	4	1	5	5	4	3	3	2	3	6	5	5	8	2	6	2	4	10	4
Fairfield	7	9	2	6	4	5	1	9	10	3	4	6	3	1	9	9	2	4	10	4	4	4
Fayette	5	6	5	2	2	2	9	2	2	3	1	....	1	2	5	1	2	4	3	3	5	1
Franklin	10	12	11	5	9	13	9	10	6	14	10	2	10	12	12	7	14	8	17	7	8	5
Fulton	1	3	2	7	1	2	2	1	1	3	1	2	4	....	6	3	1	6	1	2	1	1
Gallia	3	5	4	1	2	2	4	3	3	4	7	4	2	8	4	....	4	4	4	4	3	3
Geauga .....	....	2	....	2	2	2	2	1	3	1	....	3	7	3	7	....	11	6	9	4	5	4
Greene	3	10	9	8	5	5	8	2	5	1	6	5	4	5	....	8	6	8	9	5	10	10
Guernsey	6	1	6	5	9	7	....	13	15	15	6	7	4	5	13	....	11	4	3	11	4	3
Hamilton	36	57	62	54	68	42	53	48	59	53	55	50	67	41	71	39	47	43	42	37	39	31

[illegible]

DEATHS AT EACH AGE, NUMBER OF DEATHS IN EACH COUNTY, ETC.—Continued.

Counties.	25 to 30.		30 to 35.		35 to 40.		40 to 45.		45 to 50.		50 to 55.		55 to 60.		60 to 65.		65 to 70.		70 to 75.		75 to 80.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Seneca.....	2	6	3	1	3	3	4	4	6	3	7	...	3	6	3	7	10	6	4	8	13	3
Shelby.....	6	6	4	7	3	5	6	4	2	5	8	8	5	4	4	6	7	7	5	3	5	...
Stark.....	9	12	4	7	3	2	14	8	2	8	8	8	12	12	13	9	15	11	13	10	9	11
Summit.....	4	2	5	6	8	2	3	1	6	6	6	6	7	4	7	4	7	5	11	9	12	10
Trumbull.....	7	10	5	5	6	5	9	4	6	8	6	8	12	9	11	8	11	6	15	9	14	5
Tuscarawas.....	3	9	10	10	6	4	4	4	5	4	13	2	5	4	6	6	4	8	9	6	9	8
Union.....	2	2	...	7	2	...	5	4	4	2	6	5	2	1	4	...	7	6	4	3	6	3
Van Wert.....	2	10	3	7	2	3	2	3	5	1	5	3	8	8	5	2	...	1	2	4	2	1
Vinton.....	1	4	1	...	1	...	4	5	5	1	6	3	2	4	5	3	4	1	6	...	2	3
Warren.....	11	6	2	6	6	4	1	7	10	6	4	5	6	3	4	4	9	3	6	11	10	5
Washington.....	6	9	6	5	7	10	5	8	6	5	1	4	4	8	8	5	12	5	15	14	16	10
Wayne.....	9	4	3	6	2	4	2	3	8	3	3	3	3	8	4	11	7	5	13	4	11	5
Williams.....	1	7	1	1	2	6	3	5	...	6	2	2	2	4	4	4	5	4	9	4	5	5
Wood.....	5	11	4	3	4	10	3	5	4	2	1	4	6	3	3	4	7	2	7	1	4	6
Wyandot.....	1	4	2	2	3	5	1	...	4	3	3	1	4	5	3	4	3	3	2	...	8	3
Totals.....	475	592	439	476	424	430	434	387	475	402	450	385	550	374	672	426	588	494	675	474	611	462

DEATHS AT EACH AGE, NUMBER OF DEATHS IN EACH COUNTY, ETC. - Continued.

Counties.	60 to 85.		85 to 90.		90 to 95.		95 to 100.		100 and over.		Age unknown.		Total.		Unknown sex and age-total.	Total No. deaths, both sexes, and unknown.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Adams.....	2	3	2	1	2	1	1	1	1	1	1	1	106	63	169	169
Allen.....	3	3	3	1	3	1	1	1	1	1	1	1	122	136	258	258
Ashland.....	5	6	6	3	1	1	1	1	1	1	1	1	112	86	204	204
Ashabula.....	11	15	5	5	1	3	1	1	1	1	1	1	136	152	288	288
Athens.....	5	7	1	2	1	1	1	1	1	1	1	1	102	91	194	194
Auglaize.....	3	3	2	2	1	2	1	1	1	1	1	1	134	93	227	227
Belmont.....	12	4	5	1	3	1	1	1	1	1	1	1	188	181	369	369
Brown.....	4	4	4	1	1	1	1	1	1	1	1	1	131	113	244	244
Butler.....	3	1	2	2	1	1	1	1	1	1	1	1	191	138	329	329
Carroll.....	2	2	3	1	3	1	2	1	1	1	1	1	78	84	162	162
Champaign.....	6	7	2	1	1	1	1	1	1	1	1	1	123	101	224	224
Clarke.....	3	2	3	2	2	1	1	1	1	1	1	1	134	113	247	247
Clermont.....	9	3	3	7	1	1	1	1	1	1	1	1	166	142	308	308
Clinton.....	1	2	1	2	1	1	1	1	1	1	1	1	85	98	183	183
Columbiana.....	10	4	6	5	6	1	2	1	2	1	1	1	300	232	532	532
Coahuila.....	1	3	2	1	1	2	1	1	1	1	1	1	72	70	142	142
Crawford.....	5	1	1	1	1	1	1	1	1	1	1	1	154	132	286	286
Cuyahoga.....	16	12	6	10	3	2	1	1	1	1	1	1	634	484	1118	1118
Darke.....	2	2	5	3	1	1	1	1	1	1	1	1	158	192	350	350
Defiance.....	4	2	1	1	1	1	1	1	1	1	1	1	107	84	191	191
Delaware.....	7	4	5	6	2	2	2	1	1	1	1	1	148	95	243	243
Erie.....	1	1	1	1	1	1	1	1	1	1	1	1	108	86	194	194
Fairfield.....	6	5	3	2	2	1	1	1	1	1	1	1	129	121	250	250
Fayette.....	2	1	1	1	1	1	1	1	1	1	1	1	90	59	149	149
Franklin.....	9	1	7	2	2	1	1	1	1	1	1	1	267	243	510	510
Fulton.....	2	2	1	1	1	1	1	1	1	1	1	1	73	71	144	144
Gallia.....	1	2	1	1	1	1	1	1	1	1	1	1	82	70	152	152
Geauga.....	6	3	3	4	3	1	3	1	1	1	1	1	77	50	127	127
Greene.....	6	3	5	2	2	1	1	1	1	1	1	1	126	141	267	267
Guernsey.....	7	7	2	2	1	1	1	1	1	1	1	1	105	89	194	194
Hamilton.....	14	15	3	8	3	3	2	2	1	1	54	53	1437	1304	2741	2741

DEATHS AT EACH AGE, NUMBER OF DEATHS IN EACH COUNTY, ETC.—Continued.

Counties.	80 to 85.		85 to 90.		90 to 95.		95 to 100.		100 and over.		Age unknown.		Total.		Unknown sex and age—total.	Total No. deaths, both sexes, and unknown.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Hancock.....	2	1	2	1	.....	.....	.....	.....	.....	.....	.....	.....	105	114	.....	219
Hardin.....	4	1	1	3	.....	.....	.....	.....	.....	.....	.....	.....	117	97	.....	214
Harrison.....	4	.....	3	3	.....	.....	.....	.....	.....	.....	.....	.....	89	67	.....	156
Henry.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	71	68	.....	139
Higland.....	8	6	5	6	1	1	.....	.....	.....	.....	.....	.....	144	134	.....	278
Hocking.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	86	82	.....	168
Holmes.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	93	87	.....	180
Huron.....	10	8	4	2	2	2	.....	.....	.....	.....	.....	.....	163	124	.....	287
Jackson.....	2	1	2	4	.....	.....	.....	.....	.....	.....	.....	.....	90	102	.....	192
Jefferson.....	7	1	3	1	2	1	.....	.....	.....	.....	.....	.....	105	78	.....	183
Knox.....	8	4	1	1	.....	.....	.....	.....	.....	.....	.....	.....	118	100	.....	218
Lake.....	6	2	3	4	.....	.....	.....	.....	.....	.....	.....	.....	63	54	.....	117
Lawrence.....	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	141	119	.....	260
Licking.....	.....	.....	3	4	1	.....	.....	.....	.....	.....	.....	.....	158	174	.....	332
Logan.....	5	1	4	4	.....	.....	.....	.....	.....	.....	.....	.....	121	109	.....	230
Lorain.....	9	8	6	2	1	1	.....	.....	.....	.....	.....	.....	152	155	2	309
Lucas.....	10	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	357	262	.....	619
Madison.....	.....	.....	2	3	1	.....	.....	.....	.....	.....	.....	.....	78	76	.....	154
Mahoning.....	.....	.....	2	3	.....	.....	.....	.....	.....	.....	.....	.....	157	123	.....	290
Marion.....	2	7	4	2	.....	.....	.....	.....	.....	.....	.....	.....	83	91	.....	174
Medina.....	2	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	92	89	.....	181
Meigs.....	9	6	2	2	.....	.....	.....	.....	.....	.....	.....	.....	107	123	.....	230
Mercer.....	5	3	2	3	.....	.....	.....	.....	.....	.....	.....	.....	96	95	.....	191
Mercer.....	3	.....	1	1	2	.....	.....	.....	.....	.....	.....	.....	168	118	.....	286
Miami.....	5	1	4	3	1	.....	.....	.....	.....	.....	.....	.....	113	112	.....	225
Monroe.....	1	4	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Montgomery.....	14	8	2	2	2	1	.....	.....	.....	.....	.....	.....	574	349	.....	923
Morgan.....	2	5	2	3	.....	.....	.....	.....	.....	.....	.....	.....	65	84	.....	149
Morgan.....	2	5	2	3	.....	.....	.....	.....	.....	.....	.....	.....	108	88	.....	196
Morrow.....	7	3	3	4	.....	.....	.....	.....	.....	.....	.....	.....	233	168	.....	401
Maskingum.....	11	2	4	5	1	1	.....	.....	.....	.....	.....	.....	65	49	.....	114
Noble.....	3	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	72	61	.....	133
Ottawa.....	1	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Paulding	1	3	2	259	81	58	30	17	7	5	75	64	13,387	11,514	239	25,440	156
Perry	4	1	1	1	1	1	1	1	1	1	1	1	113	105	105	218	218
Pickaway	2	2	1	1	1	1	1	1	1	1	1	1	92	113	14	219	219
Pike	2	2	1	1	1	1	1	1	1	1	1	1	96	62	188	205	188
Portage	6	10	2	3	3	2	2	1	1	1	1	1	91	114	114	205	205
Preble	4	3	3	3	3	2	2	1	1	1	1	1	104	126	230	230	230
Putnam	4	2	3	4	2	2	1	1	1	1	1	1	110	83	230	203	203
Richland	4	5	2	2	1	1	1	1	1	1	1	1	111	117	2	230	230
Ross	4	2	4	1	2	2	2	2	2	2	2	2	168	170	338	338	338
Sandusky	3	2	1	2	2	2	2	2	2	2	2	2	159	127	296	296	296
Scioto	3	3	1	1	1	1	1	1	1	1	1	1	161	145	306	306	306
Seneca	4	3	2	5	1	1	1	1	1	1	1	1	125	122	247	247	247
Shelby	2	3	1	1	1	1	1	1	1	1	1	1	123	114	237	237	237
Stark	9	8	5	4	1	1	1	1	1	1	1	1	222	201	423	423	423
Summit	7	3	3	3	2	2	1	1	1	1	1	1	159	119	5	371	371
Trumbull	9	9	5	4	1	1	1	1	1	1	1	1	210	161	359	359	359
Tuscarawas	3	2	8	4	3	1	1	1	1	1	1	1	188	155	16	200	200
Union	3	3	2	2	2	2	2	2	2	2	2	2	101	99	13	231	231
Vau Wert	1	2	1	1	1	1	1	1	1	1	1	1	99	119	13	151	151
Vinton	1	1	1	2	1	1	1	1	1	1	1	1	74	58	19	299	299
Warren	10	1	1	1	1	1	1	1	1	1	1	1	125	134	40	367	367
Washington	9	6	9	4	1	1	1	1	1	1	1	1	188	182	236	236	236
Wayne	9	3	5	5	1	3	1	1	1	1	1	1	132	104	4	221	221
Williams	4	4	2	2	1	1	1	1	1	1	1	1	111	106	5	277	277
Wood	7	1	2	2	1	1	2	1	1	1	1	1	134	138	5	143	143
Wyandot	1	3	1	1	1	1	1	1	1	1	1	1	68	75	75	143	143
Totals	421	257	228	259	81	58	30	17	7	5	75	64	13,387	11,514	239	25,440	156

TABLE EXHIBITING THE NATIVITY OF DECEASED PERSONS FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	United States.		Austria.		British America and Canada.		Denmark.		England and Wales.		France.		Germany.		Holland and Belgium.		Ireland.		Italy.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Adams	99	62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Allen	109	124	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ashland	105	77	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ashtabula	119	143	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Atchewa	88	80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Anglaize	105	70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Belmont	159	155	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brown	91	88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Butler	73	77	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carroll	69	79	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Champaign	111	96	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Clarke	105	102	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Clermont	119	118	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Clinton	78	92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Columbiana	187	183	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Coshocton	60	55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Crawford	132	113	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cuyahoga	478	354	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Darke	141	177	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Defence	78	69	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Delaware	94	58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Erie	80	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fairfield	115	112	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fayette	82	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Franklin	218	203	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

[illegible]

NATIVITY OF DECEASED PERSONS—Continued.

Counties.	United States.		Austria.		British America and Canada.		Denmark.		England and Wales.		France.		Germany.		Holland and Belgium.		Ireland.		Italy.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Preble	86	115	.....	.....	.....	.....	.....	.....	1	.....	1	.....	3	.....	.....	.....	5	3	.....	.....
Putnam	92	84	.....	.....	.....	.....	.....	.....	4	1	.....	.....	11	7	.....	.....	1	.....	.....	.....
Richland	102	103	.....	.....	.....	.....	.....	.....	.....	3	1	.....	4	7	.....	.....	1	3	.....	.....
Ross	134	126	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9	18	.....	.....	5	1	.....	.....
Sandusky	125	109	.....	.....	.....	.....	.....	.....	.....	.....	3	1	18	5	.....	.....	10	7	.....	.....
Scioto	135	133	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	5	5	.....	.....	4	1	.....	.....
Seneca	102	103	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	1	8	.....	.....	2	3	.....	.....
Shelby	93	68	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	12	15	.....	.....	3	2	.....	.....
Stark	160	158	.....	.....	.....	.....	.....	.....	6	4	10	8	17	12	.....	.....	6	1	.....	.....
Summit	126	104	.....	.....	.....	.....	.....	.....	6	3	3	3	7	4	.....	.....	1	.....	.....	.....
Trumbull	170	135	.....	.....	.....	.....	.....	.....	16	11	.....	.....	14	5	.....	.....	10	5	.....	.....
Tuscarawas	162	133	.....	.....	.....	.....	.....	.....	4	1	.....	.....	4	2	.....	.....	2	2	.....	.....
Union	93	92	.....	.....	.....	.....	.....	.....	1	1	.....	.....	3	2	.....	.....	.....	.....	.....	.....
Van Wert	83	107	.....	.....	.....	.....	.....	.....	2	1	.....	.....	10	5	.....	.....	2	2	.....	.....
Vinton	64	51	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	1	.....	.....	4	2	.....	.....
Warren	104	106	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	20	13	.....	.....	3	1	.....	.....
Washington	148	155	.....	.....	.....	.....	.....	.....	2	1	.....	.....	2	1	.....	.....	3	2	.....	.....
Wayne	116	92	.....	.....	.....	.....	.....	.....	1	.....	2	2	7	5	.....	.....	1	1	.....	.....
Williams	104	98	.....	.....	.....	.....	.....	.....	.....	2	1	.....	2	3	.....	.....	1	1	.....	.....
Wood	112	125	.....	.....	.....	.....	.....	.....	9	1	.....	.....	13	7	.....	.....	2	1	.....	.....
Wyandot	65	64	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	3	8	.....	.....	.....	.....	.....	.....
Totals	10,414	9600	18	6	41	33	3	...	281	215	54	46	1004	676	7	7	438	309	2	2

NATIVITY OF DISEASED PERSONS—Continued.

Counties.	Russia.		Scotland.		Norway. and		Switzerland.		Other countries.		Unknown.		Colored.		Total.		Sex unknown.	Total deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Adams .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	106	63	.....	169
Allen .....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	122	136	.....	238
Ashland .....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	112	86	6	204
Ashtabula .....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	136	152	.....	288
Athens	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	102	91	1	194
Auglaize .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	134	93	.....	227
Belmont .....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	188	181	.....	369
Brown .....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	131	113	11	255
Butler .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	191	138	.....	399
Carroll	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	78	84	.....	162
Champaign .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	123	101	.....	224
Clarke .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	134	113	19	266
Clermont	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	166	142	.....	308
Clinton .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	85	98	.....	183
Columbiana	10	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	300	232	.....	532
Coahooton .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72	70	12	154
Crawford .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	154	132	.....	286
Cuyahoga	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	634	484	.....	1,118
Darke .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	158	192	.....	350
Defiance .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	107	84	.....	191
Delaware	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	148	95	10	253
Erie .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	108	86	10	204
Fairfield .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	129	121	.....	260
Fayette .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	90	59	6	155
Franklin .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	267	243	6	516
Fulton	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	73	71	.....	144

NATIVITY OF DECEASED PERSONS—Continued.

Counties.	Russia.		Scotland.		Sweden and Norway.		Switzerland.		Other countries.		Unknown.		Colored.		Total.		Sex unknown.	Total deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Galla.....	4	1	7	11	52	70	.....	152
Geauga.....	8	5	.....	.....	77	50	.....	127
Greene.....	126	141	.....	268
Guernsey.....	2	.....	.....	.....	3	.....	.....	194
Hamilton.....	227	229	.....	.....	1,437	1,304	.....	2,778
Hancock.....	1	1	.....	.....	105	114	.....	219
Hardin.....	117	97	.....	214
Harrison.....	117	97	.....	214
Henry.....	89	67	.....	156
Highland.....	71	68	.....	139
Hocking.....	144	134	.....	278
Holmes.....	86	82	.....	168
Huron.....	93	87	.....	180
Jackson.....	163	124	.....	287
Jefferson.....	90	102	.....	192
Knox.....	105	78	.....	183
Lake.....	118	100	.....	218
Lawrence.....	63	64	.....	117
Licking.....	141	119	.....	260
Logan.....	158	174	.....	332
Loran.....	121	109	.....	230
Lucas.....	152	155	.....	309
Madison.....	357	262	.....	619
Madison.....	78	76	.....	154
Marion.....	157	123	.....	280
Martin.....	83	91	.....	174

[illegible]

TABLE SHOWING THE OCCUPATION OF DECEASED PERSONS AT TIME OF DEATH IN EACH COUNTY FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	Artists.		Bakers and con- fectioners.		Bankers.		Blacksmiths.		Bricklayers and plasterers.		Book-binders.		Carpenters and cabinet-makers.		Clerks and book- keepers.		Clergymen.		Doctors.		Editors.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Adams			1				2						2				2					
Allen							1						4				1					
Ashtabud							2						2				1					
Ashtabula							2						2				1					
Athens							1						2				1					
Anglaise							1						2				1					
Belmont	1						2		1				2				3					
Brown							1		1				1				1					
Butler							1						1				1					
Carroll							1						1				1					
Champaign							1						1				1					
Clarke							1						1				1					
Clermont							4						1				1					
Clinton							2		4				3				1					
Columbiana							2						3				1					
Cochocton							3						3				1					
Crawford							3						2				2					
Cuyahoga	2		3	1	1	4	5		4				22		12	9	4		3			
Darke					1		2						1				1					
Defiance							1						1				1					
Delaware							6						3				1					
Erie							3						4				1					
Fairfield							1						4				2					
Wayne							2						1				1					
Franklin			1		2		1		1				6				2		2		1	

TABLE SHOWING THE OCCUPATION OF DECEASED PERSONS AT TIME OF DEATH IN EACH COUNTY—Continued.

Counties.	Artists.		Bakers and confectioners.		Bankers.		Blacksmiths.		Bricklayers and plasterers.		Book-binders.		Carpenters and cabinet-makers.		Clerks and book-keepers.		Clergymen.		Doctors.		Editors.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Preble	11	4	24	3	16	124	63	8	3	276	120	12	44	1	89	1	1	1	1	1	1	1
Putnam	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Richland	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ross	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sandusky	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Seneca	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Shelby	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stark	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Summit	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Trumbull	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tuscarawas	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Union	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Van Wert	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vinton	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Warren	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Washington	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wayne	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Williams	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wood	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Wyandot	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Totals	11	4	24	3	16	124	63	8	3	276	120	12	44	1	89	1	1	1	1	1	1	1

* No report.

TABLE SHOWING THE OCCUPATION OF DECEASED PERSONS AT TIME OF DEATH—Continued.

Counties.	Farmers and stock raisers.		House-keepers.		House servants.		Lawyers.		Machinists.		Merchants.		Miners.		Painters and paper hangers.		Plumbers.		Printers.		Proprietors of manufactories.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
Adams.....	56			14		1																
Allen.....	41			59			1				2											
Ashland.....	40			25		8					1											
Ashubula.....	68			103			1				3				1						1	
Athens.....																						
Anglaize.....	44			9		6	3				2										1	
Belmont.....	53		1	4			1				5		4									
Brown.....	59			29																		
Butler.....	55			22							5		2		3	1						
Carroll.....	37			34							1											
Champaign.....	27			16			1				2											
Clarke.....	30			5					4		1											
Clermont.....	55			17			1				4											
Clinton.....	42			52		4	1				4		1									
Columbiana.....	73			49		3			4		2		9									
Coshocton.....	24			9		4							1									
Crawford.....	46			10			1		2													
Cuyahoga.....	60	23	6	18	6	22	4	11			16	3	2		4	5	2	2	2	2	2	2
Darke.....	54										1											
Defiance.....	31			5		8			1		1											
Delaware.....	35	20		10	4	7		3			1											
Erie.....	28			48			1				2											
Fairfield.....	53	1		39		6		2			1				1							
Fayette.....	39			8							1											
Franklin.....	51	3		5		1			2												2	
Fulton.....	22			17																		

TABLE SHOWING THE OCCUPATION OF DECEASED PERSONS AT TIME OF DEATH—Continued.

Counties.	Farmers and stock raisers.		House keepers.		House servants.		Lawyers.		Machinists.		Merchants.		Miners.		Painters and paper hangers.		Plumbers.		Printers.		Proprietors of manufactories.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
Gallia	35	2		25	15	2						1										
Geauga	45			27			1					2										
Greene	45	1		45	5																	
Guernsey	40			48		2	2															
Hamilton	22			50	14	6						22										
Hancock	30			35	6							1										
Hardin	37			10	6							1										
Harrison	40			31																		
Henry	23	10		11	6		1					2										
Highland	53			76								1										
Hocking	32			48										2								
Holmes	6	5		6	1	1	4					4		4								
Huron	57			49			3					3										
Jackson	24			50										1								
Jefferson	30	5		7		1	2							1								
Knox	45			39	2	1						5										
Lake	22	2		19	4		1					3										
Lawrence	13			19																		
Licking	24			48	9		3					7										
Logan	31			58		1																
Lorain	54	10		40	8	2	1					2										
Lucas	50		1	8	4		3					2										
Madison	27				19																	
Mahoning	43	4	1	34																		
Marion	30			15																		
Medina	47			37		1																

[illegible]

* No report.

A detailed report not having been received from all of the counties, the totals in detail can not therefore equal the grand totals.

TABLE SHOWING THE OCCUPATION OF DECEASED PERSONS AT TIME OF DEATH—Continued.

Counties.	Public officers.		Shoemakers.		Tailors and seamstresses.		Teachers.		Tanners.		Laborers.		Other occupations.		No occupation, including children.		Totals.		Sex unknown.	Total deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Adams											1		3		37	46	106	63	.....	169
Allen			1								7		9	18	60	58	122	136	.....	254
Ashland			1		5						5		3		48	51	112	86	6	204
Ashtabula											7		8	1	39	45	136	132	.....	288
Athens																	102	91	1	194
Anglaize											15		3	6	59	72	134	93	.....	227
Belmont	1										12		17		65	169	189	181	.....	369
Brown			1								13				61	83	131	113	11	255
Butler			3				2	1	2						93	111	191	13	.....	329
Carroll											1				84	85	123	54	.....	162
Champaign											2				33	49	78	101	.....	224
Clarke			2				2	2			11		9	2	21	99	134	113	19	266
Clement			2				1	1			3		13	7	73	115	166	142	.....	308
Colum											1		1		31	9	85	98	.....	183
Clinton	1		1								25		15		156	176	300	232	.....	532
Columbiana			5												36	56	72	70	12	154
Coshocton											1		3		85	120	154	132	.....	286
Crawford							1				15				254	282	634	484	.....	1113
Cuyahoga	2		6	6	4	15	8		60	13			130	80	88	191	158	192	.....	350
Darke			1						7						56	70	107	84	.....	191
Defiance											9		5		67	49	148	95	10	253
Delaware			4						25	8			13	6	67	32	108	86	10	204
Erie									9				5		46	73	129	121	.....	250
Fairfield			1						9						42	50	90	59	6	155
Fayette			2						16				19	6	158	923	267	243	0	516
Franklin																				

[illegible]

TABLE SHOWING THE OCCUPATION OF DECEASED PERSONS AT TIME OF DEATH—Continued.

Counties.	Public officers.		Shoemakers.		Tailors and seamstresses.		Teachers.		Tanners.		Laborers.		Other occupations.		No occupation, including children.		Totals.		Sex unknown.	Total deaths.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Preble .....	...	...	...	...	3	1	1	...	...	...	...	...	7	...	38	76	104	126	...	230
Putnam .....	...	...	...	...	...	...	...	...	...	...	...	...	2	...	63	63	110	93	...	903
Richland .....	...	...	1	...	2	...	1	...	...	...	...	...	6	...	57	112	111	117	2	230
Ross .....	...	...	2	...	3	...	3	...	...	...	13	...	17	1	76	89	164	170	...	334
Sardusky	1	...	...	...	1	...	...	...	...	...	16	...	7	...	129	125	159	127	...	286
Scioto .....	...	...	...	...	2	...	1	...	...	...	11	2	19	21	93	108	161	145	...	306
Seneca .....	...	...	...	...	1	...	...	...	...	...	3	...	26	11	51	93	125	122	...	247
Shelby .....	...	...	1	...	1	...	...	...	...	...	6	5	5	13	55	46	123	114	...	237
Stark .....	...	...	3	...	1	...	2	...	...	...	19	...	12	4	89	132	222	201	...	423
Summit	1	...	4	...	2	...	1	...	...	...	8	...	10	...	68	77	159	119	5	243
Trumbull .....	...	...	1	...	...	...	...	...	...	...	15	3	4	...	74	87	210	161	...	371
Tuscarawas .....	...	...	3	...	1	...	...	...	1	...	7	...	7	...	101	85	188	135	16	359
Union .....	...	...	...	...	...	...	...	...	...	...	4	...	6	...	50	54	101	99	...	200
Van Wert .....	...	...	...	...	1	...	1	...	...	...	3	...	2	...	52	64	90	119	...	231
Vinton .....	...	...	1	...	...	...	...	...	...	...	3	...	3	...	31	56	74	58	19	151
Warren .....	...	...	...	...	...	...	...	...	...	...	10	...	7	...	59	96	125	134	40	299
Washington	1	...	...	...	2	...	1	...	...	...	14	...	11	4	73	166	185	183	...	367
Wayne	1	...	...	...	1	...	3	...	...	...	8	...	9	...	42	38	132	104	...	236
Williams .....	...	...	...	...	...	...	1	...	...	...	3	...	5	1	69	74	111	106	4	221
Wood .....	...	...	1	...	...	...	...	...	...	...	6	...	2	5	62	68	134	138	5	277
Wyandot .....	...	...	...	...	1	...	1	...	...	...	4	...	...	...	20	31	68	75	...	143
Totals	26	...	104	6	68	135	45	52	20	...	773	53	907	251	6561	8134	13,387	11,814	239	25,440

* No report in detail.

TABLE SHOWING THE NUMBER OF DEATHS IN EACH MONTH AND IN EACH COUNTY IN OHIO, AS REPORTED BY PROBATE JUDGES, FOR THE YEAR ENDING MARCH 31, 1878.

Counties.	1877. April.		1877. May.		1877. June.		1877. July.		1877. August.		1877. September.		1877. October.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Adams	9	3	7	7	6	5	2	2	4	4	15	3	18	10
Allen	11	12	13	12	10	6	9	5	13	19	11	20	13	12
Ashland	6	6	9	9	7	3	8	6	6	4	15	10	11	9
Ashabula	11	12	6	7	9	8	7	7	10	11	9	9	14	14
Athens	7	9	7	3	5	5	5	13	8	5	7	9	8	10
Auglaize	13	7	9	5	6	5	8	5	14	12	16	10	12	8
Belmont	18	14	11	19	20	9	12	14	15	14	16	17	22	16
Brown	23	8	11	5	5	8	13	7	6	9	7	11	11	11
Butler	17	10	10	10	15	14	23	11	12	9	22	10	14	7
Carroll	9	4	6	8	5	10	4	7	8	3	9	9	5	6
Champaign	13	8	10	6	7	5	7	7	13	14	11	12	8	10
Clarke	7	8	10	7	9	5	16	11	10	7	14	10	9	7
Clermont	12	7	8	5	11	5	16	14	16	11	15	13	19	7
Clinton	7	10	7	5	5	12	8	8	3	10	11	13	8	6
Columbiana	25	14	20	11	18	13	16	12	14	13	27	24	23	22
Coshocton	6	1	2	5	3	7	6	5	4	7	4	5	3	5
Crawford	10	12	9	11	4	8	8	8	15	12	23	7	14	14
Cuyahoga	34	29	38	29	41	33	66	34	77	41	56	30	67	58
Darke	9	13	13	14	10	8	14	11	16	12	14	23	12	21
Defiance	6	6	6	4	4	6	6	6	13	11	16	7	8	10
Delaware	6	4	9	5	10	4	9	5	23	17	19	8	7	10
Erie	11	13	6	4	6	6	8	2	14	13	14	7	6	3
Fairfield	3	5	6	7	10	4	10	5	6	21	4	8	22	10
Fayette	3	3	5	3	6	3	6	4	7	5	4	4	9	4
Franklin	19	15	15	16	16	13	25	18	18	23	22	22	18	15
Fulton	3	5	2	3	3	3	9	8	11	8	13	9	3	6
Galla	5	11	4	5	6	3	7	8	4	4	11	8	4	2
Geauga	4	4	6	5	9	4	2	2	2	2	6	2	5	4
Greene	4	8	4	6	8	8	12	13	12	10	11	12	16	14

NUMBER OF DEATHS IN EACH MONTH IN OHIO—Continued.

Counties.	1877. April.		1877. May.		1877. June.		1877. July.		1877. August.		1877. September.		1877. October.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Guernsey	12	7	10	4	7	7	7	7	12	93	9	4	121	5
Hamilton	94	80	80	66	141	79	103	103	136	181	101	78	121	95
Hancock	13	11	4	3	5	6	6	11	13	18	13	18	9	10
Hardin	6	4	6	8	3	5	9	6	8	8	6	6	11	8
Harrison	6	4	5	7	10	6	6	5	7	8	8	3	7	6
Henry	7	9	4	7	6	3	9	9	5	8	7	9	7	6
Highland	10	9	8	8	5	5	10	10	17	9	9	8	14	16
Hocking	9	2	8	5	8	4	9	4	8	15	5	5	10	11
Holmes	4	5	10	7	6	8	11	14	13	10	6	7	6	6
Huron	14	11	10	17	11	5	14	7	15	7	19	13	12	14
Jackson	6	10	6	5	8	7	7	10	6	6	11	7	7	8
Jefferson	7	4	6	2	7	3	11	5	8	6	10	12	10	9
Knox	8	8	6	5	6	11	11	7	13	13	10	8	11	9
Lake	6	2	2	8	7	1	5	5	9	3	5	2	5	3
Lawrence	14	4	12	16	8	4	8	13	13	13	7	12	12	6
Licking	13	11	14	15	11	9	7	12	16	26	12	14	18	22
Lodge	11	11	12	7	10	9	14	6	10	12	11	13	10	6
Logan	12	7	16	14	10	8	13	10	12	17	11	20	8	14
Lorain	26	17	25	15	25	24	36	22	35	25	39	19	30	18
Lucas	3	5	9	4	3	7	9	8	11	8	10	10	5	11
Madison	12	10	9	9	12	10	7	6	14	6	14	9	12	11
Mahoning	3	6	3	5	4	4	3	6	10	5	13	12	11	10
Marion	1	3	3	8	4	6	4	6	7	7	8	11	10	5
Medina	1	5	8	2	3	5	9	6	9	15	7	11	5	9
Melara	3	8	4	4	6	5	10	7	7	12	14	10	5	8
Mercer	3	6	12	11	13	7	16	9	17	14	12	10	10	7
Miami	2	3	5	5	5	5	7	9	14	9	8	11	11	9
Monroe	46	36	37	21	26	21	40	29	50	31	56	38	36	28
Montgomery	1	7	7	7	3	8	6	4	6	4	7	5	5	5
Morgan	3	5	4	8	3	8	6	5	10	8	9	13	13	7
Morrow														

Muskingum	16	9	15	13	22	10	18	12	26	18	19	12	19	18
Noble	5	6	8	4	3	2	4	5	3	3	9	6	2	4
Ottawa	5	1	3	7	2	3	4	3	10	4	9	3	9	7
Paulding	5	12	3	4	6	8	1	5	9	9	8	9	5	5
Perry	8	4	10	3	7	6	5	7	6	15	10	8	10	9
Pickaway	10	7	10	6	6	11	6	10	4	13	6	6	4	11
Pike	3	.....	7	6	7	8	5	4	6	2	7	3	8	6
Portage	3	4	9	9	3	7	7	5	13	9	5	12	8	10
Prebbe	7	13	9	5	10	13	8	13	8	12	9	11	9	9
Putnam	11	5	5	5	5	3	7	4	18	16	14	11	7	4
Richland	13	2	7	12	10	11	7	10	15	14	10	15	8	5
Ross	15	11	6	13	12	10	20	10	18	19	4	12	25	13
Sandusky	11	5	22	9	8	7	12	16	10	14	28	16	9	13
Scioto	17	12	9	13	14	10	11	12	19	13	11	11	10	10
Seneca	8	6	9	9	8	5	8	7	13	12	14	24	8	8
Shelby	7	6	6	4	3	5	8	8	9	9	18	23	8	11
Stark	19	16	18	15	16	14	17	16	17	18	13	12	20	17
Summit	13	11	12	10	14	11	10	6	17	12	5	9	13	11
Trumbull	15	9	7	15	8	5	16	5	14	19	23	15	25	16
Tuscarawas	20	10	10	6	13	10	13	10	17	17	19	8	14	6
Union	7	4	9	6	8	10	9	6	11	10	9	16	9	7
Van Wert	10	12	2	2	1	7	9	9	13	14	14	16	12	11
Vinton	2	2	5	2	4	9	5	3	8	2	3	4	8	4
Warren	14	16	13	10	8	13	11	9	10	9	9	16	10	12
Washington	18	21	10	13	17	14	11	13	14	16	15	16	12	13
Wayne	8	10	12	10	7	5	8	4	10	16	10	8	8	1
Williams	9	9	7	15	2	3	5	4	9	5	19	8	11	14
Wood	6	8	10	6	9	7	10	5	11	13	19	20	18	18
Wyandot	4	6	3	3	4	7	5	7	7	7	6	2	11	9
Totals	968	810	877	774	890	753	1012	842	1242	1095	1221	1074	1148	1001

NUMBER OF DEATHS IN EACH MONTH IN OHIO—Continued.

Counties.	1877. November.		1877. December.		1878. January.		1878. February.		1878. March.	Total.		Total number of deaths, both sexes and unknown.
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Unknown.	
Adams	7	5	6	5	10	2	11	2	11	9	63	169
Allen	6	12	6	4	12	12	14	14	12	9	136	258
Ashland	13	5	4	4	10	4	9	2	8	14	86	204
Ashtabula	9	9	13	18	17	21	14	12	17	15	136	288
Athens	9	9	9	10	14	8	14	12	14	2	102	194
Auglaize	8	9	8	7	12	7	9	11	19	7	93	227
Belmont	12	12	16	7	16	17	15	21	15	21	184	369
Brown	8	6	8	11	12	12	10	13	9	9	131	255
Butler	15	10	10	17	16	17	16	16	19	15	191	329
Carroll	5	7	4	12	6	9	14	9	6	7	78	162
Champaign	14	6	8	5	9	10	12	6	11	12	123	224
Clarke	6	12	10	11	19	8	11	13	13	12	134	266
Clermont	13	13	11	17	15	12	17	20	14	19	166	308
CClinton	7	2	6	3	6	5	12	15	5	9	85	183
Columbiana	27	23	31	24	30	21	33	26	36	29	300	532
Coshocton	12	3	5	9	7	8	7	8	13	7	72	154
Crawford	13	9	21	13	12	8	10	8	19	18	132	286
Cuyahoga	63	63	45	45	51	41	47	46	47	35	634	1114
Darke	6	13	12	15	15	19	17	25	15	18	158	350
Defiance	5	4	9	8	8	4	11	6	13	10	107	191
Delaware	10	5	11	12	13	9	15	10	16	6	148	253
Erie	7	4	9	9	6	7	9	5	12	13	108	204
Fairfield	14	10	10	12	14	9	9	20	21	10	129	250
Fayette	9	4	11	8	13	3	9	5	8	9	90	155
Franklin	23	20	25	24	19	33	26	14	41	27	267	516
Fulton	3	3	2	3	4	7	3	4	6	7	73	144
Gallia	3	3	6	7	10	4	6	8	12	9	82	152
Geauga	7	6	10	7	7	6	6	3	6	2	77	50
Greene	12	12	9	16	13	18	11	12	14	12	196	268
.....											1	1

Guernsey	8	11	6	75	100	12	155	3	165	3	11	200	200	14	105	80	194
Hamilton	95	80	100	75	100	100	155	165	200	200	200	200	200	200	1437	1304	2778
Hancock	6	8	10	7	8	7	7	9	6	9	9	9	9	9	105	114	219
Hancock	6	8	10	7	8	7	7	9	6	9	9	9	9	9	105	114	219
Hardin	6	8	10	7	8	7	7	9	6	9	9	9	9	9	105	114	219
Harrison	7	6	9	6	14	10	10	15	16	16	20	20	20	12	117	97	156
Henry	3	4	4	6	9	3	3	4	4	5	6	6	6	2	71	68	139
Highland	9	16	14	4	17	13	13	13	14	19	20	20	20	144	144	134	278
Hocking	16	4	3	6	5	5	6	5	4	7	11	86	86	7	86	82	168
Holmes	16	4	4	5	5	5	6	5	4	5	8	93	93	9	93	87	180
Huron	10	7	6	7	19	12	15	12	15	12	18	163	163	12	163	124	287
Jackson	4	11	8	9	7	8	8	8	11	12	10	90	90	10	102	102	192
Jefferson	10	9	9	3	8	8	8	9	8	10	9	105	105	78	78	183	183
Knox	8	7	8	3	13	6	6	9	6	15	17	118	118	100	100	218	218
Lake	1	6	2	8	6	5	5	6	6	9	5	63	63	54	54	117	117
Lawrence	14	7	10	9	10	7	7	16	13	17	15	141	141	119	119	260	260
Licking	9	10	11	11	16	15	15	14	14	17	12	158	158	174	174	332	332
Logan	5	4	2	13	8	12	17	14	14	11	10	121	121	109	109	230	230
Lorain	13	12	14	13	16	12	14	14	14	13	14	152	152	155	155	309	309
Lucas	18	23	32	16	34	25	24	30	33	28	7	357	357	262	262	619	619
Madison	8	2	8	3	6	3	3	5	8	1	7	78	78	76	76	154	154
Mahoning	13	8	8	9	18	16	16	15	15	20	14	157	157	123	123	250	250
Marion	9	8	4	7	9	7	7	6	12	8	9	83	83	91	91	174	174
Medina	8	8	7	7	12	11	11	9	7	12	12	92	92	89	89	181	181
Meigs	3	9	11	14	18	13	13	11	14	20	16	107	107	123	123	230	230
Mercer	4	9	10	5	11	6	16	8	8	13	9	96	96	95	95	191	191
Miami	19	12	13	7	13	10	15	9	20	16	16	168	168	118	118	286	286
Monroe	8	10	11	7	15	8	16	15	15	21	21	113	113	112	112	225	225
Montgomery	41	26	61	27	62	33	59	25	54	34	34	574	574	349	349	923	923
Morgan	5	6	5	9	5	5	4	4	16	11	8	65	65	84	84	149	149
Morrow	15	8	12	2	10	10	13	6	10	8	8	108	108	85	85	196	196
Muskingum	21	15	12	13	18	14	24	16	24	18	18	233	233	168	168	401	401
Noble	6	5	6	3	8	4	6	4	6	3	5	65	65	49	49	114	114
Ottawa	7	6	3	7	7	5	4	4	10	9	3	72	72	61	61	133	133
Paulding	8	8	3	10	9	9	7	7	3	3	9	67	67	89	89	156	156
Perry	14	9	11	10	14	13	11	9	7	12	12	113	113	105	105	218	218
Pickaway	7	9	5	12	11	13	9	4	9	11	9	92	92	113	113	219	219
Pike	7	6	9	5	13	6	12	7	13	9	9	96	96	62	62	158	158
Portage	4	3	10	14	10	15	7	13	12	13	13	91	91	114	114	205	205
Preble	6	7	7	4	7	11	12	15	12	13	13	104	104	126	126	230	230
Putnam	6	6	7	12	6	10	14	7	10	10	10	110	110	93	93	203	203
Richland	6	7	4	10	14	9	11	10	11	6	12	111	111	117	117	230	230
Ross	8	9	12	18	19	19	19	14	13	15	23	168	168	170	170	338	338

NUMBER OF DEATHS IN EACH MONTH IN OHIO—Continued.

Counties.	1877. November.		1877. December.		1878. January.		1878. February.		1878. March.		Total.		Total number of deaths, both sexes and unknown.
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
Sandusky	12	5	14	11	12	8	8	11	13	12	159	127	286
Scioto	16	11	19	12	10	14	11	14	14	13	161	145	306
Seneca	15	10	6	11	10	8	18	14	8	8	125	122	247
Shelby	9	11	12	8	12	4	13	9	18	16	123	114	237
Stark	15	13	22	20	20	18	20	19	25	23	222	201	423
Summit	7	6	15	13	18	11	16	9	16	10	159	119	283
Trumbull	18	14	18	13	28	17	22	17	16	16	210	161	371
Tuscarawas	10	10	11	11	17	17	20	23	24	27	188	155	359
Union	5	8	9	8	9	8	6	5	10	11	101	99	200
Van Wert	6	9	7	11	6	9	10	6	9	13	99	119	231
Vinton	4	8	7	5	8	3	6	6	14	10	74	58	151
Warren	13	10	9	14	7	7	12	9	9	9	125	134	299
Washington	12	13	6	13	25	13	19	21	26	16	185	182	367
Wayne	13	6	11	6	12	11	14	13	19	14	132	104	236
Williams	10	9	10	10	14	14	7	6	8	9	111	106	221
Wood	12	11	9	11	14	11	5	14	11	14	134	138	277
Wyandot	4	3	4	3	3	9	6	9	11	10	68	75	143
Totals	1008	892	1031	943	1248	1102	1280	1208	1402	1330	13,387	11,814	25,440

* Estimated, the report from Hamilton county being incomplete.

VITAL STATISTICS—NOSOLOGY.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF DEATHS AND THE CAUSES OF DEATH, IN EACH COUNTY, FOR THE YEAR ENDING MARCH 31, 1878.

NOMENCLATURE AND CLASSIFICATION OF DISEASES.

CLASSES.

- | | |
|------------------------------|-----------------------------|
| I. ZYMOTIC DISEASES. | IV. DEVELOPMENTAL DISEASES. |
| II. CONSTITUTIONAL DISEASES. | V. VIOLENT DEATHS. |
| III. LOCAL DISEASES. | |

ORDERS.

- | | |
|---------------------------------------|--|
| I.—1. Miasmatic Diseases. | IV.—1. Developmental Diseases of Children. |
| 2. Enthetic Diseases. | 2. Developmental Diseases of Adults. |
| 3. Dietic Diseases. | 3. Developmental Diseases of Old People. |
| 4. Parasitic Diseases. | 4. Diseases of Nutrition. |
| II.—1. Diathetic Diseases. | V.—1. Accident or Negligence. |
| 2. Tubercular Diseases. | 2. Battle. |
| III.—1. Diseases of Nervous System. | 3. Homicide. |
| 2. Diseases of Organs of Circulation. | 4. Suicide. |
| 3. Diseases of Respiratory Organs. | 5. Execution. |
| 4. Diseases of Digestive organs. | 6. Violent Deaths not included above. |
| 5. Diseases of Urinary Organs. | |
| 6. Diseases of Generative Organs. | |
| 7. Diseases of Organs of Locomotion. | |
| 8. Diseases of Integumentary System. | |

DISEASES.

- | | |
|---|--|
| I.—1. <i>Miasmatic, Infectious, Contagious, and Epidemic.</i> | 10. Metria (Puerperal Fever). |
| 1. Small-pox. | 11. Carbuncle. |
| 2. Measles. | 12. Influenza. |
| 3. Scarlatina. | 13. Dysentery. |
| 4. Diphtheria. | 14. Diarrhœa. |
| 5. Quinsy. | 15. Cholera Infantum. |
| 6. Croup. | 16. Cholera. |
| 7. Whooping Cough. | 17. Ague. |
| 8. Typhoid Fever. | 18. Remittent Fever. |
| 9. Erysipelas (and Phlebitis). | 19. Rheumatism. |
| | 20. Cerebro Spinal Meningitis (Spotted Fever). |

 NOMENCLATURE AND CLASSIFICATION OF DISEASES—Continued.

I.—2. *Enthetic.*

1. Syphilis.
2. Stricture of Urethra.
3. Hydrophobia.
4. Glanders (and Malignant Pustule).

I.—3. *Dietic.*

1. Privation (Starvation).
2. Purpura and Scurvy.
3. Delirium Tremens, } Alcoholism.
4. Intemperance, }

I.—4. *Parasitic.*

1. Thrush.
2. Worms.

II.—1. *Diathetic.*

1. Gout.
2. Dropsy and Anæmia.
3. Cancer.
4. Noma (Canker).
5. Mortification.

II.—2. *Tubercular.*

1. Scrofula.
2. Tabes Mesenterica (Consumption of Bowels).
3. Phthisis (Consumption of Lungs).
4. Hydrocephalus (Dropsy of the Brain).

III.—1. *Nervous System.*

1. Cephalitis (Inflammation of the Brain).
2. Apoplexy.
3. Paralysis.
4. Insanity.
5. Chorea (St. Vitus Dance).
6. Epilepsy.
7. Tetanus.
8. Convulsions.
9. Brain Diseases.

III.—2. *Organs of Circulation.*

1. Pericarditis.
2. Aneurism.
3. Heart Diseases, etc.

III.—3. *Respiratory Organs.*

1. Epistaxis (Nose Bleed).
2. Laryngitis.
3. Brouchitis.
4. Plenrisy.
5. Pneumonia.
6. Asthma.
7. Lung Diseases, etc.

III.—4. *Digestive Organs.*

1. Gastritis (Inflammation of the Stomach).
2. Inflammation of the Bowels.
3. Ascites (Dropsy of Abdominal Cavity).
4. Ulceration of Intestines.
5. Hernia.
6. Internal Strangulation of Bowels.
7. Fistula.
8. Stomach Diseases, etc.
9. Pancreatic Diseases, etc.
10. Hepatitis.
11. Jaundice.
12. Liver Disease, etc.
13. Spleen Disease, etc.

III.—5. *Urinary Organs.*

1. Nephritis (Inflammation of the Kidneys).
2. Ischuria (Difficult Urination).
3. Bright's Disease.
4. Diabetes.
5. Calculus (Stone, Gravel, etc.).
6. Inflammation of the Bladder.
7. Kidney Diseases, etc.

III.—6. *Generative Organs.*

1. Ovarian Dropsy.
2. Diseases of the Womb, etc.

NOMENCLATURE AND CLASSIFICATION OF DISEASES—Continued.

- | | |
|--|---|
| <p>III.—7. <i>Organs of Locomotion.</i></p> <ol style="list-style-type: none"> 1. Inflammation of the Joints. 2. Joint Diseases, etc. <p>III.—8. <i>Integumentary System.</i></p> <ol style="list-style-type: none"> 1. Phlegmon (Carbuncle, etc.). 2. Ulcer. 3. Skin Diseases, etc. <p>IV.—1. <i>Developmental Diseases of Children.</i></p> <ol style="list-style-type: none"> 1. Stillborn. 2. Infantile, Premature, etc. 3. Cyanosis. 4. Spina Bifidia. 5. Other Malformations. 6. Teething. <p>IV.—2. <i>Developmental Diseases of Adults.</i></p> <ol style="list-style-type: none"> 1. Paramenia (Menstrual Diseases). 2. Child-Birth. | <p>IV.—3. <i>Developmental Diseases of Old People.</i></p> <ol style="list-style-type: none"> 1. Old Age. <p>IV.—4. <i>Developmental Diseases of Nutrition.</i></p> <ol style="list-style-type: none"> 1. Atrophy and Debility. <p>V.—1. <i>Accident or Negligence.</i></p> <ol style="list-style-type: none"> 1. Fractures and Contusions. 2. Burns and Scalds. 3. Poison. 4. Drowning (and Lost at Sea). 5. Suffocation (and Strangulation). 6. Otherwise. <p>V.—2. Battle.</p> <p>V.—3. Homicide.</p> <p>V.—4. Suicide.</p> <p>V.—5. Execution.</p> <p>V.—6. Violent Deaths not included above.</p> <p>V.—7. Sudden deaths and cause unknown and deaths, not reported elsewhere.</p> |
|--|---|

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUMBER OF DEATHS, AND THE

Counties.	Class 1.—Zymotic diseases.									
	Order 1.—Miasmatic, infectious, contagious, and epidemic.									
	1. Small-pox.		2. Measles.		3. Scarlatina.		4. Diphtheria.		5. Quinsey.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams							5	3		
Allen			5	3	3	2	5	2		
Ashland					2	2	10	6		
Ashtabula					1	1	8	11		
Athens			6	2			14	13		
Anglaize			1				2	3		
Belmont				2	2	1	15	15		
Brown							7	5		
Butler	1									
Carroll					14	16		3		
Champaign					14	13	4	1		
Clarke			1	1	8	4	3	7		
Clermont			1	2			6	3		
Clinton					1		3	3		
Columbiana	3	1	7	4	15	13	9	10		
Coshocton			1					1	1	
Crawford			1	1	6	5	22	22		
Cuyahoga		1	1		5	9	129	112	1	
Darke						3	2	9		
Defiance			1		1	1	12	7		
Delaware					16	13		1		
Erie					1	2	1	2		
Fairfield			1		8	6	5	5		
Fayette			1	3	1		3	4		1
Franklin			1		14	17	18	23		
Fulton					4	1	3	1		
Gallia										
Geauga						1				
Greene			1					4		
Guernsey			1			3	5	9		
Hamilton	1	10	2	3	3	7	38	35		
Hancock			1	3			2	2		
Hardin			2				3	4	1	2
Harrison					13	11	7	11	1	
Henry						1	5	3		
Highland				1			5	2		
Hocking							1	4	1	
Holmes			2	1	6		5	2		2
Huron							5	4		
Jackson					1	2	1	1		1
Jefferson							1	3		
Knox					1	1	15	12		
Lake						2		2		
Lawrence			2	1	3		8	6		
Licking					2	5	9	11		

NOSOLOGY.

CAUSES OF DEATH, IN EACH COUNTY, FOR THE YEAR ENDING MARCH 31, 1878.

Class 1.—Zymotic diseases.

Order 1.—Miasmatic, infectious, contagious, and epidemic.

6. Croup.		7. Whooping-cough.		8. Typhoid fever.		9. Erysipelas.		10. Metria (puerperal fever.)		11. Carbuncle.		12. Influenza.		13. Dysentery.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
---	4	4	2	9	1	---	1	---	---	---	---	---	---	---	1
4	4	3	1	4	7	---	---	---	---	---	---	---	---	7	7
2	5	---	---	12	7	---	2	---	---	---	---	---	---	---	1
---	---	---	---	8	5	3	1	---	---	1	---	---	---	---	---
5	4	1	2	7	2	---	1	---	1	---	---	---	---	---	1
8	13	7	2	3	---	---	---	---	---	---	---	---	---	1	---
3	2	---	---	7	8	1	2	---	---	---	---	---	---	2	2
5	4	9	6	3	---	---	---	---	1	---	---	1	---	---	---
4	---	---	---	9	5	---	---	---	---	---	---	---	---	---	---
---	---	1	3	2	1	---	---	---	2	---	---	---	---	1	1
3	3	1	2	---	2	2	---	---	---	---	---	---	---	---	---
5	1	1	1	4	4	---	3	---	2	---	---	---	---	2	1
4	1	4	3	14	9	1	---	---	---	---	---	---	---	1	1
2	2	---	---	3	7	---	---	---	1	---	---	1	---	---	---
3	2	1	3	10	13	---	2	---	3	---	---	---	---	3	4
3	2	1	1	2	1	---	1	---	3	---	---	---	---	---	---
5	2	1	1	8	5	1	---	---	---	---	---	---	---	---	2
16	1	9	11	21	21	2	2	---	1	---	---	---	---	15	9
4	4	1	7	5	12	1	---	---	---	---	---	---	---	2	3
5	7	---	---	---	6	---	---	---	---	---	---	---	---	---	1
---	1	1	---	8	6	1	1	---	---	---	---	---	---	20	7
1	1	7	3	6	6	---	---	---	---	---	---	---	---	10	10
4	3	2	8	4	4	---	---	---	---	---	---	---	---	---	---
1	---	2	4	5	3	1	1	---	---	---	---	1	---	---	---
5	1	4	8	8	9	---	2	---	---	---	---	---	---	---	---
1	1	1	2	---	---	---	---	---	---	---	---	---	---	---	---
6	2	2	4	2	4	---	---	---	---	---	---	---	---	---	---
1	---	---	---	3	4	1	---	---	1	---	---	---	---	---	---
---	2	3	3	6	4	---	1	---	---	---	---	---	---	---	4
1	2	---	---	5	---	---	---	---	---	---	---	---	---	1	---
13	14	11	19	31	25	5	5	---	2	---	---	---	---	8	4
7	5	---	1	9	10	---	---	---	1	---	---	2	3	4	2
6	3	5	5	9	5	---	---	---	---	---	---	1	1	1	3
2	---	3	2	5	2	---	---	---	1	---	---	---	---	---	---
4	1	---	---	7	5	---	1	---	1	---	---	---	---	---	1
---	---	1	3	13	10	2	---	---	---	---	---	---	---	5	---
5	1	2	1	3	7	---	1	---	1	1	---	1	---	2	2
2	5	7	2	2	5	2	2	---	2	2	1	1	---	3	6
1	2	9	7	4	8	1	1	---	---	---	---	---	---	1	1
1	1	8	7	4	2	---	---	---	---	---	---	---	---	---	---
---	---	1	3	3	5	---	---	---	---	1	---	1	---	1	---
2	2	---	2	9	8	---	---	---	---	---	---	---	---	1	1
2	---	---	---	2	3	---	1	---	---	---	---	---	---	---	---
3	5	7	7	4	8	1	---	---	---	---	---	3	2	4	4
---	---	8	9	3	10	1	1	---	---	---	---	---	---	---	---

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUMBER OF

Counties.	Class 1.—Zymotic diseases.									
	Order 1.—Miasmatic, infectious, contagious, and epidemic.									
	1. Small-pox.		2. Measles.		3. Scarlatina.		4. Diphtheria.		5. Quinay.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Logan			1		17	13				
Lorain			1		14	7	19	15		
Lucas			2	5	12	9	29	28		
Madison			1		3	4	6	11		
Mahoning	2	1	1		15	14		1	1	
Marion					7	4	2	6		
Medina					1	1	1	1		
Meigs						1	1	3		
Mercer			2	1	1	1	1			
Miami			1	2	1	1	4	2		
Monroe							6	15		
Montgomery					1	1	12	5		1
Morgan			1	3	1		3	4		
Morrow					14	9	5	4	2	
Muskingum			4	4	1	2	7	17		
Noble			1	1		1	2	2		
Ottawa					1		12	13	1	1
Paulding			2	8			2	6		
Perry							8	12		
Pickaway			1				2	1		
Pike								2		
Portage				2		1	3	2		
Preble					2	2	1	1	5	6
Putnam					2			1	1	
Richland			2		1		2	2		
Ross			2		1	1	5	11		
Sandusky			1	2	4	2	16	14		
Scioto						2	1			
Seneca							7	11		
Shelby			4	2		2		4		
Stark			1		3		4	12		
Summit					7	1	13	14		
Trumbull	1				14	12	9	4		
Tuscarawas			4		19	14	4	11		
Union					6	3	1	7		
Van Wert			3	3			6	3		
Vinton							1	2		
Warren	2			1				7	1	
Washington	1		11	7		2	4	6		
Wayne			1		2	2		3		1
Williams			5	4	5	8	29	14		
Wood			1	1	1	2	11	8		
Wyandot					1					
Totals	11	13	92	73	302	264	635	672	16	15

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, IN EACH COUNTY, ETC.—Continued.

Class 1.—Zymotic diseases.

Order 1.—Miasmatic, infectious, contagious, and epidemic.

6. Croup.		7. Whooping-cough.		8. Typhoid fever.		9. Erysipelas.		10. Metria (puerperal fever.)		11. Carbuncle.		12. Influenza.		13. Dysentery.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	1	2	.....	5	11	1	4	....	1	....	....	....	....	5	....
4	4	1	3	8	3	1	....	....	....	1	....	1	3	5	4
1	1	6	8	3	4	1	1	....	....	....	....	....	....	2	1
....	....	3	5	6	6	1	....	....	....	....	....	....	....	1	1
2	3	....	1	10	10	....	....	....	....	....	....	....	....	2	2
....	....	....	....	4	5	1	....	....	....	....	....	....	....	1	1
1	2	4	8	3	8	....	4	....	1	....	....	....	....	....	1
2	2	....	3	2	5	....	2	....	....	....	....	....	....	....	....
6	1	4	2	5	4	1	1	....	....	....	....	....	....	1	....
3	3	....	....	5	2	2	1	....	....	....	....	....	....	1	....
9	5	12	9	9	22	3	....	....	2	....	....	....	1	4	3
1	3	....	1	1	....	2	2	....	....	....	....	....	....	....	....
....	....	2	2	6	....	2	....	....	....	2	....	....	....	3	1
4	4	10	12	10	4	1	2	....	....	....	....	....	....	2	1
....	....	....	....	2	1	....	....	....	....	....	....	....	....	1	1
....	....	....	1	2	5	....	....	....	1	....	....	....	....	1	1
....	1	....	3	9	4	....	2	....	....	....	....	....	....	1	2
....	2	8	5	2	1	1	1	....	....	....	....	....	....	3	....
2	....	2	8	3	1	2	1	....	....	....	....	....	....	....	....
4	3	5	2	4	1	1	1	....	....	....	....	....	....	....	2
1	2	....	....	4	5	1	....	....	....	....	....	....	....	5	2
....	....	4	4	1	10	7	5	....	....	....	....	....	....	....	....
2	2	2	1	4	2	3	1	....	....	....	....	....	....	1	....
1	....	....	2	6	4	2	1	....	1	....	....	....	....	....	....
1	1	5	5	1	1	1	....	....	....	....	....	....	....	6	4
5	5	6	3	18	8	....	2	....	....	....	....	....	....	8	8
4	1	4	3	7	11	1	....	....	....	....	....	....	....	1	....
11	5	1	2	7	18	1	....	....	1	....	....	....	....	2	....
3	2	....	2	9	8	2	1	....	....	....	....	....	....	....	....
3	2	5	3	4	8	1	....	....	....	....	....	....	....	....	2
....	....	1	....	1	7	1	....	....	....	....	....	....	....	....	1
2	1	4	3	7	5	3	1	....	....	....	....	....	....	2	1
....	1	....	3	2	2	....	....	....	1	....	....	....	....	....	....
2	....	....	1	4	7	1	1	....	1	....	....	....	....	1	4
1	5	1	6	6	10	1	1	....	1	....	....	....	....	2	1
1	1	3	7	1	1	1	1	....	....	....	....	1	1	2	....
4	5	....	....	2	4	....	2	....	....	....	....	....	....	2	2
3	3	1	1	4	9	....	....	....	2	....	....	....	....	2	2
3	2	....	....	10	6	3	1	....	1	....	....	....	....	1	2
1	....	1	1	3	4	....	2	....	....	....	....	....	....	....	....
8	4	2	3	11	13	1	3	....	1	....	....	....	....	1	1
1	2	3	1	6	5	....	....	....	....	....	....	....	....	....	....
246	192	232	273	503	512	76	76	....	34	7	2	14	13	163	133

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUMBER OF

Counties.	Class 1.—Zymotic diseases.									
	Order 1.—Miasmatic, infectious, contagious, and epidemic.									
	14. Diarrhoea.		15. Cholera infantum.		16. Cholera.		17. Ague.		18. Remittent fever.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams	1		1	1	1				1	
Allen	7	1	6	3		1		1		2
Ashland	1	1	4	1						
Ashtabula		1		3					2	3
Athens		1	3						3	2
Auglaize	2	1	2	1					13	5
Belmont	2		2	2	1					1
Brown	3	1	4	4			1		1	2
Butler	3		2	1						
Carroll			4							
Champaign			9	4					5	2
Clarke	1		6	3					2	
Clermont	3	3	1	1					1	3
Clinton	1		3	3						
Columbiana			16	9					6	1
Coshocton		1	3	1						3
Crawford	1		7	3						
Cuyahoga	15	10	29	24	1			1	2	3
Darke	2	1	4	3			2	2	3	4
Defiance	1	1	8	6			2	1	2	1
Delaware			3	1	1				2	
Erie	10	5	3	2					1	
Fairfield		1	3	3				2		
Fayette	2		1						2	
Franklin			2	5			3	1	1	
Fulton				1			2			1
Gallia	15	13								
Geauga			2							
Greene	1		2	1					1	2
Guernsey	5		10	13					5	2
Hamilton	12	7	20	17	3	3	1			1
Hancock	5	5	3	8					2	1
Hardin	1	2	4	5				1	5	4
Harrison	1	2	2	2					1	
Henry			5	5			2	1	2	2
Highland			1	1						
Hocking	1		6	5					2	
Holmes	4	3	3	2			2	1	6	
Huron	1	1	7	2			1	1	3	1
Jackson			2	4					1	4
Jefferson		1	2	2						
Knox		1	3	4						
Lake			5							
Lawrence	4	6	12	10					1	2
Licking	2	1	13	6						1
Logan			4	2			5	3	1	

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 1.—Zymotic diseases.

Order 1.—Miasmatic, infectious, contagious, and epidemic.						Order 2.—Euthetic.									
19. Rheumatism.		20. Cerebro-spinal meningitis—(spotted fever)		Total deaths, Order 1.		1. Syphilis.		2. Stricture of urethra.		3. Hydrophobia.		4. Glanders and malignant pustule.		Total deaths, Order 2.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3				25	13										
	3	6	9	50	46										
			1	31	26										
		3	3	25	29										
1				44	29										
		3	2	42	27										
2	2			39	37										
5	5			38	29										
				19	9										
				22	25										
2	1	3		43	28										
1		1	4	35	31										
1		1		38	26										
1		4	5	19	21										
5				78	65										
1				12	11										
2	1	3	2	57	44										
9	4	2	1	257	210										
	1	14	10	40	59										
		1	1	33	32										
2		4	1	57	32										
1				41	31										
1			1	29	41										
1	1			20	18										
2	6	1	1	59	73										
1		2	1	14	8										
				25	23										
				7	6										
	4			14	25										
9	1	2		44	30										
8	8	15	10	171	170	1				1				2	
	1	6	5	41	47			3						3	
		4	2	42	37										
				35	31										
	1	3	6	28	28										
2	2	1		30	19										
1		1	1	27	23										
2	3		1	49	38			1	3			1		2	3
	1	1	1	34	30										
1	2	2	2	21	26										
	1		1	9	14										
4	2			35	33										
				9	9										
		27	12	79	63										
4	2	2		44	46										
			2	37	37										

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUMBER OF

Counties.	Class 1.—Zymotic diseases.									
	Order 1.—Miasmatic, infectious, contagious, and epidemic.									
	14. Diarrhoea.		15. Cholera infantum.		16. Cholera.		17. Ague.		18. Remittent fever.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Lorain	2	.....	10	8	.....	.....	.....	.....	7	1
Lucas .....	.....	.....	18	11	.....	.....	.....	.....	.....	6
Madison .....	.....	.....	3	4	.....	.....	2	.....	.....	1
Mahoning	2	.....	13	5	.....	.....	.....	.....	1	1
Marion .....	.....	.....	5	5	.....	.....	.....	.....	.....	.....
Medina .....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Meigs	2	2	8	9	.....	.....	.....	1	6	5
Mercer	2	1	1	.....	.....	.....	2	.....	.....	2
Miami .....	.....	.....	10	6	.....	.....	.....	.....	3	3
Monroe	2	.....	2	1	.....	.....	.....	.....	6	5
Montgomery	6	5	11	9	.....	.....	.....	.....	.....	.....
Morgan .....	.....	1	1	3	.....	.....	.....	.....	2	.....
Morrow .....	.....	1	5	6	.....	.....	1	1	.....	.....
Muskingum	4	1	7	7	.....	.....	.....	.....	.....	.....
Noble .....	.....	.....	.....	.....	1	.....	.....	.....	3	1
Ottawa	4	5	4	1	.....	.....	.....	.....	.....	1
Paulding	2	2	4	2	.....	.....	.....	3	.....	3
Perry	1	.....	4	2	.....	.....	.....	.....	.....	.....
Pickaway .....	.....	1	3	2	.....	.....	.....	.....	1	2
Pike .....	.....	.....	.....	1	.....	.....	4	.....	.....	.....
Portage	1	.....	2	4	1	.....	1	4	.....	.....
Preble	1	.....	7	5	.....	.....	.....	.....	1	1
Putnam	7	5	3	6	.....	.....	.....	.....	.....	.....
Richland .....	.....	.....	4	4	.....	.....	.....	.....	1	6
Ross	5	.....	1	4	.....	1	.....	.....	5	2
Sandusky	2	2	4	.....	.....	2	1	.....	2	3
Scioto	1	1	1	2	.....	.....	.....	.....	.....	.....
Seneca	1	1	8	10	1	.....	.....	.....	3	1
Shelby	1	2	4	3	.....	.....	2	2	3	1
Stark	3	2	15	11	.....	.....	.....	.....	3	5
Summit .....	.....	.....	8	5	.....	.....	.....	.....	.....	.....
Trumbull	1	3	5	8	.....	.....	.....	.....	.....	.....
Tuscarawas	4	.....	2	6	.....	.....	.....	.....	.....	.....
Union .....	.....	.....	6	4	.....	.....	2	.....	.....	.....
Van Wert	2	1	5	6	.....	.....	3	5	.....	1
Vinton .....	.....	.....	1	.....	.....	.....	1	.....	2	3
Warren	1	.....	2	7	.....	.....	1	.....	2	3
Washington .....	.....	.....	.....	2	.....	.....	1	1	1	1
Wayne	1	.....	4	2	.....	.....	.....	.....	.....	1
Williams	1	.....	3	1	.....	.....	1	.....	5	4
Wood .....	.....	.....	5	11	.....	.....	2	.....	5	1
Wyandot .....	.....	.....	8	10	.....	.....	.....	.....	.....	.....
	167	105	439	367	9	8	42	35	137	119

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 1.—Zymotic diseases.

Order 1.—Miasmatic, infectious, contagious, and epidemic.						Order 2.—Euthetic.									
19. Rheumatism.		20. Cerebro-spinal meningitis—(spotted fever)		Total deaths, Order 1.		1. Syphilis.		2. Stricture of urethra.		3. Hydrophobia.		4. Glanders and malignant pustules.		Total deaths, Order 2.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	.....	.....	2	56	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	3	.....	95	78	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	1	25	31	1	.....	.....	.....	.....	.....	.....	.....	1	.....
1	1	.....	.....	47	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	2	3	30	34	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	.....	1	9	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	.....	20	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	2	3	19	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	4	2	37	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	.....	25	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	1	9	9	85	77	1	.....	.....	.....	.....	1	1	2	1	.....
1	.....	.....	.....	11	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	4	2	48	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	2	.....	.....	52	56	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	3	1	11	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	2	28	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	1	4	21	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	27	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	1	2	.....	18	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	.....	2	20	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	1	.....	21	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	6	5	2	37	41	.....	.....	.....	.....	.....	.....	1	.....	1	.....
.....	.....	3	2	29	21	.....	.....	.....	.....	.....	.....	1	.....	1	.....
2	1	2	3	22	18	.....	.....	.....	.....	.....	.....	1	.....	1	.....
3	.....	.....	.....	31	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	1	2	73	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	1	.....	23	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	.....	4	2	45	51	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	1	2	30	32	.....	.....	.....	.....	.....	.....	1	.....	1	.....
.....	1	1	3	43	49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	.....	3	1	37	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	1	1	50	39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	1	.....	1	38	40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	1	1	2	25	31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	3	3	34	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	2	1	16	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	1	1	.....	19	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	3	.....	2	28	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	1	.....	.....	26	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	.....	1	.....	56	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	6	5	54	54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	1	1	20	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
112	76	182	150	3389	3132	3	.....	4	3	1	.....	6	1	14	4

* 26 male and 12 female deaths should have been placed in some other classification in the report from this county.

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUMBER OF

Counties.	Class 1.—Zymotic diseases.									
	Order 3.—Dietic.									
	1. Privation (starvation.)		2. Purpura and scurvy.		Alcoholism.				Total deaths, Order 3.	
					3. Delirium tremens		4. Intemper- ance.			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams.....										
Allen.....										
Ashland.....										
Ashtabula.....										
Athens.....										
Auglaize.....										
Belmont.....										
Brown.....										
Butler.....										
Carroll.....										
Champaign.....										
Clarke.....										
Clermont.....							1		1	
Clinton.....										
Columbiana.....					1		1		2	
Coshocton.....										
Crawford.....										
Cuyahoga.....							1	1	1	1
Darke.....										
Defiance.....										
Delaware.....										
Erie.....										
Fairfield.....							1		1	
Fayette.....										
Franklin.....							1	1	1	1
Fulton.....										
Gallia.....										
Geauga.....										
Greene.....							1		1	
Guernsey.....										
Hamilton.....	1				2		3	3	6	3
Hancock.....										
Hardin.....							4		4	
Harrison.....										
Henry.....							1		1	
Highland.....										
Hocking.....				1			1		1	1
Holmes.....					1				1	
Huron.....										
Jackson.....										
Jefferson.....										
Knox.....										
Lake.....										
Lawrence.....										
Licking.....										

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC—Continued.

Class 1.—Zymotic diseases						Class 2.—Constitutional diseases.					
Order 4.—Parasitic.						Order 1.—Diathetic.					
1. Thrush.		2. Worms.		Total deaths, Order 4.		1. Gout.		2. Dropsy and anæmia.		3. Cancer.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	1			2	1			2	2	1	
								3	4	3	3
								4	6	1	6
								1	6	5	4
								1	3	1	4
									2	1	3
								4	5	2	5
		1		1				2	1	5	1
								1	3		
								5	1		6
	1								2	1	5
2		1		3				5	3	2	3
1			1	1	1			6	2	2	5
								2	1		4
	1	2		2	1			12	7	2	1
										2	2
										2	2
		1	3	1	3	1		7	4	22	13
								2	6	1	1
								2	1	1	1
								1	3		1
								4	2	4	2
								1	6	2	5
								4	3	1	1
								12	9	3	5
								2	1		
								1	4		
								3	4	4	2
								3	8	2	2
								3	5	2	3
								26	35	12	18
			1		1				4		
2		1	3	3	3			2	2	1	2
								5	2	2	
								3	2	1	2
								5	1	1	2
									3	1	
	3	4	5	4	8		1	1	1		
								3	5	3	7
								4	2		1
	1				1			3	6	4	2
								5	3	1	
								4	1		2
2	4			2	4			2	2		1
										1	1

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUMBER OF

Counties.	Class 1.—Zymotic diseases.									
	Order 3.—Dietic.									
	1. Privation (starvation.)		2. Purpura and scurvy.		Alcoholism.				Total deaths, Order 3.	
					3. Delirium tremens.		4. Intemper- ance.			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Logan										
Lorain							1		1	
Lucas							1		1	
Madison										
Mahoning										
Marion										
Medina										
Meigs				1						1
Mercer										
Miami										
Monroe										
Montgomery	8	14					1	1	9	15
Morgan										
Morrow										
Muskingum										
Noble					1				1	
Ottawa										
Paulding										
Perry										
Pickaway										
Pike										
Portage										
Preble										
Putnam										
Richland										
Ross										
Sandusky										
Scioto										
Seneca										
Shelby										
Stark					1		1		2	
Summit										
Trumbull		1					2		2	1
Tuscarawas							1		1	
Union										
Van Wert							1		1	
Vinton							1		1	
Warren					1		1		2	
Washington	2								2	
Wayne	1								1	
Williams										
Wood					1				1	
Wyandot			1						1	
Totals	12	15	1	2	8		25	6	46	23

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC—Continued.

Class 1.—Zymotic diseases.						Class 2.—Constitutional diseases.					
Order 4.—Parasitic.						Order 1.—Diathetic.					
1. Thrush.		2. Worms.		Total deaths, Order 4.		1. Gout.		2. Dropsy and anemia.		3. Cancer.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	1	5	3	5
.....	7	1	1	2
.....	2	2	3	5
.....	4	7	1	1
.....	1	.....	1	.....	.....	.....	1	2	.....	4
.....	6	4	3	1
.....	4	5	1	4
.....	2	3	.....	1
.....	2	2	3	3
.....	1	.....	1	.....	.....	.....	2	2	.....	6
.....	2	8	1	1
.....	9	7	11	8
.....	1	1
.....	1	3
.....	9	3	7	10
.....	1	3	.....	.....
.....	1
.....	3	2	.....	.....
.....	1	.....	.....	.....	1	.....	.....	2	2	.....	4
.....	3	1	.....	.....
1	1	.....	.....	.....	4	.....	1	.....
.....	1	1	1	1	.....	.....	4	5	4	6
.....	6	2
.....	1	.....	1	.....	.....	.....	2	.....	1	2
.....	2	3	2	1
.....	1	.....	.....	.....	1	.....	.....	7	4	3	1
.....	4	3	1	1
.....	5	3	1	2
.....	1	.....	1	.....	.....	.....	3	6	2	4
1	1	.....	.....	1	1	.....	.....	4	1	.....	.....
.....	1	.....	9	12	1	8
.....	3	4	5	5
.....	6	6	2	5
.....	6	10	4	1
.....	2	1	.....	3
.....	2	2	3
.....	2	.....	1	1
.....	3	6	.....	3
.....	8	6	2	4
.....	3	5	2	2
.....	1	1	1	1	.....	.....	6	3	.....	4
1	1	1	1	.....	.....	2	3	1	2
.....	4	5	.....	.....
12	14	16	16	28	30	2	1	303	318	175	251

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Counties.	Class 2.—Constitutional diseases.									
	Order 1.—Diathetic.						Order 2.—Tubercular.			
	4. Noma (canker).		5. Mortification.		Total deaths, Order 1.		1. Scrofula.		2. Tubercles (consumption of bowels).	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams					3	2		1	1	
Allen					6	7	1			
Ashland					5	12	1			1
Ashtabula					6	10	3	2		
Athens					2	7			2	2
Anglaize					1	5				
Belmont				1	6	11		1		
Brown					7	2	1			
Butler					1	3		1		
Carroll					5	7	1			
Champaign					1	7	2			
Clarke			1		8	6		5		
Clermont					8	7		1		
Clinton					2	5	2	5		
Columbiana					14	8	5	4	4	3
Coshocton					2	2		1		
Crawford				2	2	4				
Cuyahoga					30	17	1	1	16	12
Darke					3	7	2	2	1	
Defiance					3	2	1			1
Delaware					1	4		1	1	
Erie					8	4				
Fairfield					3	11				
Fayette					5	4	1			
Franklin				1	15	15	1	1		1
Fulton					2	1	1			
Gallia					1	4				
Geauga			1		8	6				
Greene				1	5	11	3	2	2	
Guernsey					5	8				
Hamilton					38	53	3	3	6	3
Hancock			1		1	4				
Hardin	1	1			4	5	1			
Harrison					7	2	2	1		
Henry					4	4		1		2
Highland					6	3	4	2		
Hocking				3	1	6	2	3	7	7
Holmes	1		1		3	2	4	3	1	
Huron			1		7	12	1	1	2	
Jackson					4	3	1	2		
Jefferson					7	8	4		1	
Knox	2	2			8	5				
Lake					4	3	1			1
Lawrence					2	3				
Licking					1	1				

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 2.—Constitutional diseases.						Class 3.—Local diseases.					
Order 2.—Tubercular.						Order 1.—Nervous system.					
3. Phthisis (consumption of lungs.)		4. Hydrocephalus (dropsy of brain.)		Total deaths, Order 2.		1. Cephalitis (inflammation of the brain.)		2. Apoplexy.		3. Paralysis.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
20	14	.....	.....	21	15	.....	.....	.....	1	4	3
16	22	.....	.....	17	22	.....	.....	2	2	1	1
14	11	.....	.....	15	12	.....	.....	2	1	7	6
12	22	.....	.....	15	24	10	8	2	2	1	9
22	30	.....	.....	24	32	1	1	1	2	4	2
14	8	.....	.....	14	8	3	1	.....	.....	2	.....
15	23	.....	.....	15	24	5	3	1	.....	8	3
.....	1	.....	.....	1	1	.....	.....	2	.....	2	1
32	36	.....	.....	33	37	.....	.....	.....	.....	7	4
5	10	2	.....	8	10	1	1	1	.....	8	3
4	4	.....	.....	6	4	2	1	.....	3	.....	1
18	23	.....	.....	18	28	2	.....	.....	.....	8	2
28	25	.....	.....	28	26	5	1	1	.....	10	6
16	27	.....	.....	18	32	3	8	2	.....	2	2
47	40	1	1	57	48	.....	.....	2	2	7	7
3	10	3	3	6	14	2	.....	.....	1	2	1
15	14	.....	.....	15	14	.....	.....	.....	1	7	2
63	45	3	2	83	60	10	3	8	4	8	2
20	38	.....	.....	23	40	.....	4	.....	3	4	3
13	11	.....	.....	14	12	.....	.....	1	.....	3	1
16	16	1	.....	18	17	2	.....	3	1	5	2
.....	.....	.....	.....	.....	.....	.....	1	2	.....	2	.....
21	31	.....	.....	21	31	.....	.....	.....	.....	10	6
12	14	1	.....	14	14	.....	.....	1	1	3	.....
43	41	.....	.....	44	43	.....	.....	2	.....	8	3
.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	3
.....	.....	.....	.....	.....	.....	5	4	.....	.....	5	3
13	9	1	.....	14	9	1	1	1	.....	2	1
28	25	.....	.....	33	27	2	4	1	6	4	3
25	25	.....	.....	25	25	.....	.....	.....	.....	9	2
215	186	2	3	226	195	15	4	15	20	26	15
10	16	.....	.....	10	16	.....	.....	.....	.....	.....	.....
10	6	.....	.....	11	6	4	3	1	3	3	1
5	7	.....	.....	7	8	6	3	.....	1	1	1
10	13	.....	.....	10	16	1	2	2	.....	1	1
15	25	.....	.....	19	27	.....	.....	8	9	3	5
8	12	4	3	21	25	.....	.....	1	3	2	2
3	2	1	2	9	7	.....	.....	.....	1	3	.....
25	24	.....	.....	28	25	7	2	4	.....	8	2
.....	.....	.....	.....	1	2	.....	.....	1	1	1	2
.....	.....	.....	.....	5	.....	2	.....	4	.....	4	2
11	19	.....	1	11	20	.....	.....	3	1	.....	.....
12	17	.....	.....	13	18	.....	.....	1	.....	2	6
11	21	.....	.....	11	21	.....	.....	.....	.....	1	2
29	32	.....	1	29	33	.....	.....	.....	2	4	7

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Counties.	Class 2.—Constitutional diseases.									
	Order 1.—Diathetic.						Order 2.—Tubercular.			
	4. Noma (canker).		5. Mortification.		Total deaths, Order 1.		1. Scrofula.		2. Tabes merent- rica (consump- tion of bowels.)	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Logan					4	10	1	3	1	....
Lorain					1	2	1	2		....
Lucas	1				11	6	1		2	3
Madison					2	3	1			....
Mahoning					5	11	2	1	1	....
Marion					1	3				....
Medina					9	8				....
Meigs					5	6		1		....
Mercer					2	6				....
Miami	1		1		7	8	3	3		1
Monroe					2	9	1	2		....
Montgomery				1	20	16	2		2	....
Morgan					1	1	2	1		....
Morrow					1	3				....
Muskingum					16	13	3		1	....
Noble					1	3		1		....
Ottawa						1				....
Paulding					3	2		1		....
Perry					2	6		2		....
Pickaway					3	1		2		....
Pike					5		2	1		....
Portage					8	11				....
Preble	1	4			7	6	1	1	1	....
Putnam					3	2	1			....
Richland		1			4	5			1	1
Ross					10	5	2			1
Sandusky					5	4				1
Scioto					6	5	1		2	1
Seneca	1	1		1	6	12	1			1
Shelby					4	1	1	3		....
Stark	1				12	20	2	1		1
Summit			1		9	9	1			....
Trumbull					8	11	1	1	3	2
Tuscarawas					10	11		4		....
Union					2	4		2		....
Van Wert					2	5	2	1		....
Vinton	1				4	1	1			....
Warren					3	9		2		....
Washington			1		11	10	1			1
Wayne				2	5	9	1			....
Williams					6	7				....
Wood					3	5	1	1		....
Wyandot					4	5			1	....
Totals	10	9	8	12	498	588	86	80	59	44

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Constitutional diseases.						Class 3.—Local Diseases.					
Order 2—Tubercular.						Order 1.—Nervous system.					
3. Phthisis (consumption of lungs.)		4. Hydrocephalus (dropsy of brain.)		Total deaths, (Order 2.)		1. Cephalitis (inflammation of the brain.)		2. Apoplexy.		3. Paralysis.	
M.	F.	M.	F.	M.	M.	M.	F.	M.	F.	M.	F.
9	12	2	1	13	16	.....	.....	1	.....	2	3
15	28	.....	.....	16	30	.....	.....	1	1	10	8
35	23	.....	.....	38	25	.....	.....	1	.....	4	3
14	10	.....	.....	15	10	.....	.....	.....	.....	6	1
14	12	1	.....	18	13	.....	1	2	2	5	3
4	9	.....	.....	4	9	.....	.....	.....	.....	4	3
10	22	.....	.....	10	22	.....	.....	.....	2	4	5
16	30	1	.....	17	31	.....	1	3	.....	2	1
11	12	1	1	12	13	.....	.....	.....	.....	.....	.....
12	15	2	.....	17	19	.....	.....	2	.....	7	4
19	19	.....	.....	20	21	6	1	1	1	1	3
100	51	2	2	106	53	15	15	10	5	36	11
16	22	.....	.....	18	23	.....	.....	.....	1	.....	2
15	13	.....	.....	15	13	.....	.....	.....	.....	4	3
37	20	.....	.....	41	20	1	.....	2	.....	11	9
8	7	.....	.....	8	8	.....	.....	2	1	.....	.....
8	5	.....	.....	8	5	.....	.....	.....	.....	.....	.....
13	9	.....	.....	13	10	.....	.....	.....	.....	1	1
13	18	1	1	14	21	.....	.....	3	.....	2	4
16	22	.....	.....	16	24	.....	.....	.....	.....	1	.....
11	7	1	.....	14	8	.....	.....	.....	.....	2	1
13	19	.....	.....	13	19	.....	2	2	2	4	4
6	21	.....	.....	8	22	.....	.....	1	2	.....	1
.....	.....	.....	.....	1	.....	2	.....	.....	.....	2	.....
11	16	.....	.....	12	17	.....	.....	1	.....	3	4
24	33	.....	1	26	35	3	1	.....	.....	7	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
13	18	1	.....	17	19	2	2	.....	.....	.....	2
12	9	.....	.....	13	10	.....	.....	.....	.....	3	8
.....	.....	.....	.....	1	3	.....	.....	.....	1	2	.....
32	22	1	.....	35	24	2	1	5	3	5	8
17	19	2	1	20	20	2	3	2	.....	7	5
31	27	.....	.....	35	30	.....	.....	2	4	10	5
21	20	.....	.....	21	24	.....	.....	1	.....	8	5
16	20	.....	.....	16	22	6	3	1	1	4	1
8	14	.....	.....	10	15	6	3	.....	.....	.....	3
17	14	.....	.....	18	14	.....	.....	.....	.....	4	1
.....	.....	.....	.....	.....	2	.....	.....	2	.....	7	7
21	35	.....	.....	22	36	3	4	2	.....	5	6
17	18	.....	1	18	19	.....	.....	1	1	4	5
5	9	.....	.....	5	9	.....	.....	1	.....	3	2
17	18	2	.....	20	19	2	2	1	1	2	2
6	13	.....	.....	7	13	.....	.....	.....	.....	2	3
1,582	1,666	36	24	1,763	1,814	139	94	125	99	387	268

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Counties.	Class 3.—Local diseases.													
	Order 1.—Nervous system.													
	4. Inanity.		5. Chorea (St. Vitus dance).		6. Epilepsy.		7. Tetanus.		8. Convulsions.		9. Brain disease.		Total deaths, Order 1.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams					1				4	1	3	1	12	5
Allen									1	3	12	12	16	18
Ashland							1		3	2	3		16	9
Ashtabula ..	3										3		19	19
Athens					1							2	7	6
Anglaize									4	2	3	3	12	6
Belmont					1				1	1	5	2	21	7
Brown						1					8	22	12	24
Butler											9	4	16	8
Carroll									2	1	1	5	13	10
Champaign ..	2	2									4	5	8	12
Clarke	1				1		1		3	2	8	8	24	12
Clermont		1					1			2	5	5	22	15
Clinton						1			1	1	1	1	9	13
Columbiana ..			1	1	1				7	14	14	6	32	30
Coshocton										1		2	4	5
Crawford									5	1	8	4	20	8
Cuyahoga					2	1			18	15	23	7	69	32
Darke						2				1	7	4	11	17
Defiance			1						4	6	5	10	14	17
Delaware						1			4		4	3	18	7
Erie						1				1	3	3	7	6
Fairfield						1			2		4	5	16	12
Fayette			1						1		6	3	12	4
Franklin				1	1		1		11	4	11	13	34	21
Fulton										3	7	6	8	12
Gallia					1	1							11	8
Geauga													4	2
Greene	2	4				1			3		1	1	13	19
Guernsey									1	1	4	1	14	4
Hamilton	2	1			2	1	2	1	71	60	50	48	183	150
Hancock									3	1	6	5	9	6
Hardin									3	2	4	3	15	12
Harrison					1						1		9	5
Henry											2	1	6	4
Highland						1			3	1	8	2	22	18
Hocking										3	10	9	13	17
Holmes						1			3	1	3	3	9	5
Huron							1	1	2	2	3	2	25	9
Jackson			1			1					8	7	11	11
Jefferson									2		4	1	16	3
Knox	4	3	1						7	5			15	9
Lake	1								1	1	1	2	6	9
Lawrence									4	2	11	7	16	11
Licking					2				2	4	3	8	11	21

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 3.—Local diseases.

Order 2.—Organs of circulation.								Order 3.—Respiratory organs.							
1. Pericarditis.		2. Aneurism.		3. Heart diseases, etc.		Total deaths, Order 2, Class 3.		1. Epistaxis, (nose bleed.)		2. Laryngitis.		3. Bronchitis.		4. Pleurisy.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
...	4	3	4	3	...	...	...	...	...	...	...	...
...	3	2	3	2	...	1	...	...	1	...	...	...
...	9	5	9	5	...	...	...	...	1	...	...	...
...	10	13	10	13	...	...	1	...	...	...	...	...
...	2	1	2	1	...	...	...	...	...	...	...	...
...	...	1	...	2	3	3	3	1	...	...	...	1	1	...	...
...	1	6	1	6	...	...	1	...	...	1	...	...
...	1	2	1	2	...	...	...	...	3	...	...	...
...	7	10	7	10	...	...	...	...	...	...	...	...
...	4	...	4	...	...	...	...	2	...	1	...
...	2	3	2	3	...	1	...	...	...	...	...	...
...	...	1	...	5	6	6	6	...	...	...	...	1	...	1	1
...	6	1	6	1	...	...	...	...	1	...	...	...
...	4	1	4	1	...	...	...	...	...	...	...	...
...	7	6	7	6	...	...	1	2	3	2	2	...
...	3	6	3	6	...	...	...	...	...	...	1	...
...	4	7	4	7	...	...	...	...	...	...	...	...
...	1	...	...	21	14	21	15	...	...	...	...	1	1	...	...
...	4	7	4	7	...	...	...	...	2	1	...	...
...	6	5	6	5	...	...	...	...	1	...	...	...
...	2	2	2	2	...	...	1	...	1	...	...	...
...	5	2	5	2	...	...	...	...	...	...	...	...
...	7	3	7	3	...	...	...	...	1	...	...	...
...	1	1	1	1	...	...	...	...	2	...	...	...
...	11	10	11	10	...	...	...	...	1	...	...	...
...	2	1	2	1	...	...	...	...	1	...	...	...
...	4	1	4	1	...	...	...	...	1	...	...	...
...	9	5	9	5	...	...	...	...	...	...	...	...
...	5	7	5	7	...	...	...	...	...	...	1	...
...	8	4	8	4	...	...	...	...	...	1	...	...
...	49	36	49	36	...	...	...	...	6	7	2	3
...	1	3	1	3	...	...	...	...	...	...	...	...
...	1	2	1	2	...	...	...	...	...	1	...	2
...	2	2	2	2	...	...	...	...	...	1	...	...
...	2	1	2	1	...	...	...	...	...	...	...	...
...	...	1	1	6	6	...	7	...	...	...	...	1	...	...	...
...	1	...	...	1	...	1	...	...	...	...	...	...	...	...	...
...	1	...	2	...	...	...	...	...	2	1	...	1
...	7	6	7	6	...	...	2	2	2	1	...	1
...	1	1	1	1	...	...	...	...	...	2	...	...
...	1	2	1	2	...	...	...	...	...	...	...	...
...	13	4	13	4	...	...	...	...	1	...	1	...
...
...	2	...	2	...	...	...	1	...	...	...	...	...
...	6	12	6	12	...	...	...	...	...	...	...	1

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Counties.	Class 3.—Local diseases.													
	Order 1.—Nervous system.													
	4. Insanity.		5. Chorea. (St.Vitus dance).		6. Epilepsy.		7. Tetanus.		8. Convulsions.		9. Brain disease.		Total deaths, Order 1.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Logan			1		1	1			1		9	6	15	10
Lorain					1		1	1					13	10
Lucas	1			1	1	1			8	3	19	7	34	15
Madison									2		5	3	13	4
Mahoning									1	1	8	7	16	14
Marion							1		1	2	4	3	10	8
Medina							1		1	1	3	2	9	10
Meigs	1				1		1		3	1	1	5	11	8
Mercer									4	4	3	4	7	8
Miami	1				1	2			2		14	8	27	14
Monroe	2			1					5	2	3	1	18	9
Montgomery	2	2		1	8	1			19	11	16	7	106	53
Morgan		2							1		1	4	2	9
Morrow										2	1	4	5	9
Muskingum		1			2	1			4	1	10	2	30	14
Noble					1						1	3	4	4
Ottawa									1	1	1	1	2	2
Paulding											2	2	3	3
Perry						1			1		3		9	5
Pickaway	1				1					2	4	7	7	9
Pike									1		3	2	6	3
Portage											3	4	9	12
Preble	3	3							1		3	5	8	11
Putnam											5	5	9	5
Richland										1	6	5	10	10
Ross			1			1			3	1	2	5	16	10
Sandusky									2	1	3	2	5	6
Scioto	1								2	1	4	5	9	10
Seneca							2		1	3	1	1	7	12
Shelby				1	1		1		1	1	7	6	12	9
Stark									6	5	8	9	26	26
Summit						2			3	4	6	2	20	16
Trumbull									2	2	8	4	22	15
Tuscarawas					1	1			2	2	4	4	16	12
Union						2						1	11	8
Van Wert									1	3	1	3	8	12
Vinton					1						1	2	6	3
Warren						1	1	1	4	3	3	5	17	17
Washington	1								6	3		2	17	15
Wayne									4	2	8	4	17	12
Williams									2	1		2	6	5
Wood	1								3	4	3	5	12	14
Wyandot					1				1	1	3	4	7	8
Totals....	29	19	7	6	35	28	14	4	275	213	466	398	1477	1129

NOSOLOGY—Continued.

DEATHS AND THE CAUSES OF DEATH, ETC.—Continued.

Class 3.—Local diseases.

Order 2.—Organs of circulation.								Order 3.—Respiratory organs.							
1. Pericarditis.		2. Aneurism.		3. Heart diseases, etc.		Total deaths, Order 2, Class 3.		1. Epistaxis. (nose bleed.)		2. Laryngitis.		3. Bronchitis.		4. Pleurisy.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
				5	2	5	2								
				9	15	9	18								
1		5	3	17	8	23	11					4	1		
				2	6	2	6	1							
				5	3	5	3						1		1
				3	4	3	4			1					
				6	4	6	4								
				4	6	4	6								
				1		1									
				5	2	5	2					1	1		1
				3	2	3	2								1
1		1	2	25	9	27	11	2		2		4	2		
1				1	2	2	2						1	1	
				3	4	3	4								
				8	7	8	7								
				2	1	2	1							1	
				2	2	2	2			1		1			
				3	1	3	1								1
				3	3	3	3					1			
	1			3	1	3	2						1		
				5	2	5	2						1		
				12	11	12	11						1		
		1		7	9	8	9			1			1		
				1	2	1	2								
				6	2	6	2			1					
				5	10	5	10						1	1	
				5	3	5	3						1	1	
				3	3	3	3								1
	1			9	4	9	5						1	3	
				4	3	4	3						1		
				7	6	7	7			2					1
1				13	4	14	4					7	5		
				9	6	9	6						1		
				4	8	4	8					1			
				2	3	2	3								
				3	5	3	5								
				1	1	1	1					1			2
		1	1	7	2	8	3								
				5	4	5	4					2			
				11	7	11	7								
				6	2	6	2	1				1			
				5	8	5	8					1		1	
				3	4	3	4							1	
5	4	11	7	491	410	507	421	4	3	12	7	60	40	18	19

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Counties.	Class 3.—Local diseases.							
	Order 3.—Respiratory organs.							
	5. Pneumonia.		6. Asthma.		7. Lung diseases, etc.		Total deaths, Order 3, Class 3.	
	M.	F.	M.	F.	M.	F.	M.	F.
Adams	4	2			6	4	10	6
Allen		2			4	9	5	12
Ashland	5	1			3	5	9	6
Ashtabula	7	6			2		10	6
Athens			2				2	
Auglaize	5				10	7	17	8
Belmont	1	4	4		15	21	17	26
Brown	2	4		1	33	33	38	38
Butler	6	6					6	6
Carroll			1	1	3	6	7	7
Champaign	3	1			20	22	24	23
Clarke	2	1	1	1	4	5	9	8
Clermont	5	7		3	1	3	7	13
Clinton		1			7	3	7	4
Columbiana	5	4	1	1	6	8	18	17
Coshocton					5	4	6	4
Crawford					15	13	15	13
Cuyahoga	6	5	2	1	14	19	23	26
Darke	18	14		2			20	17
Defiance	3	4	1		5	3	8	7
Delaware	3	2	1				5	3
Erie					18	14	18	14
Fairfield	4	2			11	8	16	10
Fayette	4		1			2	7	2
Franklin	9	6	2		12	11	24	17
Fulton	1	1			14	14	16	15
Gallia	1		1		13	17	16	17
Geauga		5					2	5
Greene	6	7	1	2	1	1	9	10
Guernsey		1						2
Hamilton	45	33	13	7	49	38	115	88
Hancock					5	3	5	3
Hardin	1	2	1		8	4	10	9
Harrison	3	1			5	2	8	4
Henry	5	4			1		6	4
Highland	1	4		1	17	12	19	17
Hocking								
Holmes					2	3	4	5
Huron	4	2	2		6	2	16	8
Jackson	1	1			16	28	17	31
Jefferson	3	1			13	17	16	18
Knox	1				9	8	12	10
Lake					4		5	
Lawrence	1	2			8	3	9	5
Licking	2	3	1	2	3	2	6	8

NOSOLOGY—Continued.

DEATHS AND THE CAUSES OF DEATH, ETC.—Continued.

Class 3.—Local diseases.

Order 4.—Digestive organs.

1. Gastritis (inflammation of the stomach).		2. Inflammation of the bowels.		3. Ascites (inflammation of the abdominal cavity).		4. Ulceration of intestines.		5. Hernia.		6. Internal strangulation of bowels.		7. Fistula.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
...	...	1	2	...	...	...	...	...	...	...	...	...	...
...	1	2	5	...	...	...	...	...	...	...	...	...	...
...	3	5	1	...	...	...	...	...	...	...	...	...	...
...	1	...	1	...	...	...	...	...	3	...	...	...	...
2	3	2	7	...	...	...	1	1	...	...	...	...	...
...	...	2	1	...	...	...	...	...	...	...	...	1	...
...	1	1	3	...	...	...	...	...	...	...	...	...	...
...	...	3	1	...	...	...	...	...	1	...	...	...	...
...	...	1	2	...	...	...	...	...	...	...	...	...	...
1	3	...	...	...	...	...	...	1	...	...	...	1	...
...	...	1	...	...	...	...	...	1	...	...	...	...	...
2	...	1	4	...	...	...	...	...	...	...	...	...	...
...	...	...	1	...	...	...	...	...	...	...	...	...	...
...	...	8	3	...	...	...	...	...	...	...	...	...	...
2	2	4	1	...	...	1	...	...	...	2	2	...	1
1	...	3	2	...	...	...	1	1	...	...	...	...	...
...	...	1	2	...	...	...	...	...	...	...	...	...	...
...	...	...	3	...	...	...	...	...	...	...	...	...	...
...	...	1	1	...	1	...	...	...	...	...	...	...	...
...	...	...	4	...	...	...	...	...	...	...	...	...	...
...	...	2	...	...	...	...	...	...	...	...	...	...	...
...	1	5	1	...	...	...	...	...	...	...	...	...	...
1	2	3	1	...	...	...	...	...	...	...	...	...	...
1	...	2	2	...	1	...	...	...	...	...	...	...	...
...	2	1	1	...	...	...	...	...	...	...	...	...	...
...
4	5	26	30	...	...	...	...	2	...	2	2	...	...
...	...	2	1	...	...	...	...	...	...	...	...	...	...
4	...	1	2	...	...	...	...	...	...	...	...	...	...
1	...	3	1	...	...	...	...	...	...	...	...	...	...
...	2	1	1	...	...	...	...	...	...	...	...	...	...
...	...	2	...	...	...	...	...	1	...	1	...	...	...
1	...	1	1	...	...	...	...	...	...	1	...	...	...
1	...	2	2	...	...	...	...	...	...	...	...	...	...
...	...	1	1	...	...	...	...	...	1	...	...	...	2
...	...	2	...	...	...	...	...	...	...	...	...	...	...
1	1	4	5	2	4	...	...	...	1	...	...	...	...

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Counties.	Class 3.—Local diseases.							
	Order 3.—Respiratory organs.							
	5. Pneumonia.		6. Asthma.		7. Lung Diseases, etc.		Total deaths, Order 3, class 3.	
	M.	F.	M.	F.	M.	F.	M.	F.
Logan	8	7	1	—	1	—	10	7
Lorain	—	—	5	2	5	9	10	11
Lucas	3	1	2	—	4	4	13	6
Madison	1	1	2	—	1	3	4	5
Mahoning	2	—	—	—	9	6	11	8
Marion	3	—	—	—	1	8	5	8
Medina	—	1	1	—	5	4	5	6
Meigs	6	4	1	—	4	4	11	8
Mercer	1	—	—	—	13	10	14	10
Morgan	9	4	1	1	6	4	17	11
Miami	—	—	—	—	—	—	—	—
Monroe	4	1	—	—	2	2	6	4
Montgomery	26	20	3	—	9	7	46	29
Morgan	1	—	—	1	1	3	3	5
Morrow	1	—	—	—	3	11	4	11
Muskingum	5	2	3	—	17	9	25	11
Noble	—	—	—	—	—	—	1	—
Ottawa	2	3	—	—	3	1	7	4
Paulding	—	—	—	—	5	16	5	17
Perry	1	—	2	1	3	3	7	4
Pickaway	—	2	—	1	3	5	3	9
Pike	1	1	1	—	12	6	14	8
Portage	1	2	1	—	5	3	7	6
Preble	3	3	2	1	3	5	8	11
Putnam	—	—	—	—	24	29	24	29
Richland	1	1	2	1	6	11	9	14
Ross	6	6	—	—	8	11	15	18
Sandusky	7	4	—	—	21	25	29	30
Scioto	—	—	—	—	10	7	10	8
Seneca	1	—	—	—	5	8	10	9
Shelby	2	1	—	1	20	29	22	32
Stark	2	2	2	2	12	7	18	12
Summit	9	8	—	—	1	1	17	14
Trumbull	6	4	1	—	6	5	13	10
Tuscarawas	20	5	1	1	—	—	22	6
Union	13	11	—	1	—	—	13	12
Van Wert	11	7	—	—	2	1	13	8
Vinton	—	2	—	—	1	1	2	5
Warren	2	1	1	1	32	31	35	33
Washington	17	7	3	2	3	2	25	11
Wayne	6	1	—	—	7	8	13	9
Williams	2	—	1	—	7	12	10	14
Wood	1	2	—	—	4	7	7	9
Wyandot	—	—	—	—	5	6	6	6
Totals	353	253	66	40	655	678	1165	1040

NOSOLOGY—Continued.

DEATHS AND THE CAUSES OF DEATH, ETC.—Continued.

Class 3.—Local diseases.

Order 4.—Digestive organs.

1. Gastritis (inflammation of the stomach).		2. Inflammation of the bowels.		3. Ascites (inflammation of the abdominal cavity).		4. Ulceration of intestines.		5. Hernia.		6. Internal strangulation of the bowels.		7. Fistula.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1			1										
1		1	2	1	2								
	1	2	3										
	1	1	2							1			
1		1	2					2					
								1					
1		5											
		2											
5	1	8	4		1	2				1			1
		2											
1	1	1	1										
1		1											
		1	1										
		1											
		2											
			1										
			1										
		2								1			
	1		4								1		
		1			1								
1		2	3										
1		1	1	1				1			1		
		1	1										
	1	6	2										
		1	1						1			1	
		1	2										
		1	3								1		
		5	3										
	1	4	1						1				
		3	9	1					2		1		
1		3	5			1							
1	2	1										1	
1		1	2					1					
3		3		1									
1			1										
	1		1										
	1	2											
1		5	1					1					
		4	3				1					1	
		1	1										
4	1	1	1			1				1	1		
	1		1										
47	40	170	162	6	11	5	3	14	10	11	19	5	4

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Counties.	Class 3.—Local diseases.													
	Order 4.—Digestive organs.													
	8. Stomach dis- eases, etc.		9. Pancreatic dis- eases, etc.		10. Hepatitis.		11. Jaundice.		12. Liver dis- eases, etc.		13. Spleen dis- eases, etc.		Total deaths, Or- der 4, Class 3.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams	2								1				4	2
Allen									3				4	6
Ashland									2	1			4	2
Ashtabula	2	1							3				10	9
Athens											1		1	2
Angelaize		1					2		1				2	2
Belmont	3	1					2	1	2	1			12	14
Brown		1							1	1	1		4	4
Butler									1	1			1	1
Carroll	1								1				2	4
Champaign	1								1				5	2
Clarke	2							1	3	1			7	4
Clermont							1		3				7	3
Clinton									3				4	
Columbiana	2	3					1				3	1	10	8
Coshocton	1			1									1	2
Crawford									1	1			9	4
Cuyahoga	1	2					1	1	2	3		1	13	13
Darke	2	1							1				7	5
Defiance									2				3	2
Delaware	2									1			2	4
Erie	1	1								1			2	4
Fairfield	1	3							1	1			2	8
Fayette									1				2	1
Franklin		1						1	3		1		9	4
Fulton														
Gallia		2							4	4			8	9
Geauga	1								1				5	3
Greene	3	3					1		1				6	6
Guernsey														
Hamilton	6	4			1		2	4	11	10			54	55
Hancock	3	3							1	3			6	7
Hardin							1		1				2	
Harrison	1									1		1	6	4
Henry									2	3			2	3
Highland									3	1			7	2
Hocking									2				2	
Holmes		1								2			1	8
Huron	1	2								2			5	4
Jackson								1	1	2			4	4
Jefferson	3						1						7	2
Knox										1			1	5
Lake	3						1	1	1				7	1
Lawrence	1												1	1
Licking	3	6					1		2	3			13	20
Logan	2							1					2	2

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 3.—Local diseases.

Order 5.—Urinary organs.

1. Nephritis (inflammation of the kidneys).		2. Ischuria (difficult urination).		3. Bright's disease.		4. Diabetes.		5. Calculus (stone, gravel, etc).		6. Inflammation of the bladder.		7. Kidney diseases.		Total deaths, order 5, class 3.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
...	1	1	1	1	...	...	...	...	3	...	4	...
...	1	1	1	1	...	...	...	...	1	...	1	2
...	2	2	2	1	1	...	...	...	2	1	7	2
...	1	1	...	...	1	...	...	...	1	1
...	1	1	1	1	1	...	...	...	3	...	6	...
...	1	1	1	1	...	...	...	...	...	...	1	...
...	2	1	1	...	...	1	...	...	1	...	5	...
...	1	...	3	...	...	...	...	...	3	...
...	1	1	1	...	1	...	1	...	3	...
...	1	2	...	1	...	2	1	5	2
...	1	...	...	...	...	...	1	...	1	...
...	1	...	1	...	1	2	5	...	7	2
...	1	...
...	3	1	2	...	...	...	1	1	6	2
1	5	1	2	...	2	1	1	...	2	...	13	2
...	1	1	...	2	...	...	...	...	...	1	...
...	1	...	2	...
1	1	...
...	1	...	...	...	1	...	1	...
...	1	...	...	...	1	...	2	...
...	1	...	...	...	1	...	2	...
...	1	...	...	...	1	...	2	...
...	1	...	1	...	4	3	6	5
...	1	1	...	...	1	...	...	...	...	...	3	...
...	1	...	1	...	2	...
...	1	2	1	...	1	...	1	...	4	2
1	6	4	...	...	...	...	3	...	6	4	16	8
2	1	1	1	...	...	...	...	...	2	1
...	1	...	...	...	...	...	...	...	2	...
...	3	1	4	1
...	1	...	...	1	2	1	...	...	1	...	1	...
1	2	...	2	...	3	2
...	1	...	...	...	2	1	5	...
1	2	...	...	...	3	...	...	...	4	1	2	2
...	1	...	1	1	...	...	...	...	...	...	10	1
...	1	...	2	...	1	...	...	...	...	...	2	1
...	1	...	...	...	...	...	...	...	...	1	4	1
...	1	1	...	...	...	...	2	...	3	...
...	1	1	...	...	...	...	...	...	1	...	2	...
...	2	...	...	...	2	1	4	1
...	1	1	...	...	...	...	...	...	3	...	5	1
...	1	3	...	...	...	...	1	...	...	...	4	1

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Counties.	Class 3.—Local diseases.													
	Order 4.—Digestive organs.													
	8. Stomach diseases, etc.		9. Pancreatic diseases, etc.		10. Hepatitis.		11. Jaundice.		12. Liver diseases, etc.		13. Spleen diseases, etc.		Total deaths, Order 4, Class 3.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Lorain	7	6											9	8
Lucas		1							2	1			4	5
Madison									1				1	1
Mahoning		2								1			2	7
Marion													2	4
Medina									3	1			6	3
Meigs									2	1			4	1
Mercer														
Miami	3	2					1			1			10	3
Monroe	2	1							1	1			5	1
Montgomery	1				6	1	1	1	1				25	9
Morgan	3												5	
Morrow													2	2
Muskingum		4							1	2			3	6
Noble									1				2	
Ottawa													1	1
Panhandling					1								1	1
Perry	1		1	1									5	1
Pickaway		1					1		1				2	6
Pike	7								2	1			9	4
Portage							1	1		2			5	7
Preble							1	1					4	2
Punnam													2	1
Richland		1					2		1	3	1		11	7
Ross							1	2		2			2	6
Sandusky	3	2							3				7	4
Scioto	2	3							2				6	6
Seneca	2	2						1					7	6
Shelby	5	5					1						10	8
Stark										2			4	14
Summit	1								1				8	7
Trumbull	1	1					2	1	1	2			6	6
Tuscarawas									1	2			4	4
Union									2				9	2
Van Wert		1						1		1			1	4
Vinton							1						1	2
Warren		3						2	3	1			6	7
Washington	1	1							5	3			14	5
Wayne								1	7	2			11	7
Williams									1				2	1
Wood	1	3							1	1			9	7
Wyandot		1					1		1				2	3
Totals	89	76	1	2	8	1	27	22	105	78	7	4	495	422

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUMBER OF

Counties.	Class 3.—Local diseases.											
	Order 6.—Generative organs.						Order 7.—Organs of locomotion.					
	1. Ovarian drop-sy.		2. Diseases of the womb, etc.		Total deaths, Order 6, Class 3.		1. Inflammation of the joints.		2. Joint diseases, etc.		Total deaths, Order 7, Class 3.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams									1		1	
Allen								1				1
Ashland												
Ashtabula												
Athens												
Anglaize												
Belmont							2	2			2	2
Brown												
Butler												
Carroll				1		1			1		1	
Champaign		1				1				1		1
Clarke				1		1				2		2
Clermont												
Clinton												
Columbiana				3		3						
Coshocton				1		1						
Crawford		6		1		7						
Cuyahoga		3				3						
Darke				3		3						
Defiance												
Delaware												
Erie												
Fairfield				1		1						
Fayette												
Franklin									1		1	
Fulton												
Gallia												
Geauga												
Greene												
Guernsey												
Hamilton				2		2						
Hancock		3				3						
Hardin		1		1		2						
Harrison												
Henry												
Highland												
Hocking												
Holmes				1		1						
Huron		1				1						
Jackson				1		1						
Jefferson												
Knox												
Lake									1		1	
Lawrence												
Licking		1		1		2			1		1	

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUMBER OF

Counties.	Class 4.—Developmental diseases.							
	Order 1.—Developmental diseases of children.							
	4. Spinabifidia.		5. Other malformations.		6. Teething.		Total deaths, Order 1, Class 4.	
	M.	F.	M.	F.	M.	F.	M.	F.
Adams					1		8	8
Allen							7	8
Ashland							1	1
Ashtabula						1		1
Athens								
Auglaize								
Belmont							6	1
Brown					4		5	
Butler								
Carroll							4	
Champaign							6	
Clark				2			2	2
Clermont		1					6	3
Clinton							1	1
Columbiana					2	3	35	16
Coshocton		1						1
Crawford							2	2
Cuyahoga					6	2	7	3
Darke							8	4
Defiance						1	7	3
Delaware							10	3
Erie								
Fairfield							5	5
Fayette								
Franklin				1	1		2	1
Fulton							3	3
Gallia								
Geauga							1	1
Greene		1		1			1	3
Guernsey								
Hamilton			2		12	8	74	40
Hancock					1	2	8	10
Hardin							1	
Harrison							1	1
Henry							5	1
Highland							6	5
Hocking					3	3	5	7
Holmes					1		3	2
Huron					1	1	2	1
Jackson			4	7			7	9
Jefferson								2
Knox							1	
Lake								
Lawrence							3	4
Licking	1	1				1	5	6

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 4.—Developmental diseases.

Order 2.—Developmental diseases of adults.						Order 3.—Developmental diseases of old people.		Order 4.—Developmental diseases of nutrition.	
1. Paramenia (menstrual disease.)		2. Child-birth.		Total deaths, Order 2, Class 4.		Old age (total).		Atrophy and debility (total).	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	1	.....	1	4	3	3	1
.....	2	.....	2	4	6	.....	.....
.....	1	.....	1	8	3	.....	.....
.....	6	.....	6	15	21	.....	.....
.....	1	.....	1	11	8	.....	.....
.....	3	1	.....
.....	4	.....	4	11	8	2	2
.....	3	.....	3	9	6	.....	.....
.....	6	7	.....	.....
.....	1	.....	1	6	5	.....	1
.....	2	.....	2	.....	.....	8	8
.....	8	6	1	1
.....	1	.....	.....	.....	1	8	16	3	1
.....	3	6	.....	.....
.....	4	.....	4	22	14	5	6
.....	3	4	1	.....
.....	1	.....	1	8	4	.....	.....
.....	9	.....	9	35	35	.....	.....
.....	3	.....	3	11	6	.....	.....
.....	1	.....	1	9	3	.....	.....
.....	2	.....	2	12	8	.....	.....
.....	4	.....	4	8	3	.....	.....
.....	1	.....	1	9	4	.....	.....
.....	2	.....	2	5	2	.....	.....
.....	6	.....	6	5	6	.....	.....
.....	1	.....	1	.....	2	8	2	.....	.....
.....	11	5	.....	.....
.....	7	7	.....	.....
.....	2	.....	2	9	5	.....	.....
.....	2	.....	2	2	7	.....	.....
.....	1	.....	14	.....	15	23	35	9	12
.....	1	.....	1	9	5	2	4
.....	1	.....	2	.....	3	6	4	1	.....
.....	1	.....	1	2	4	.....	.....
.....	2	.....	2	2	4	.....	.....
.....	2	.....	.....	.....	2	8	8	1	3
.....	2	.....	2	4	.....	.....	.....
.....	1	.....	1	.....	1	.....	.....
.....	4	.....	4	11	9	2	3
.....	4	.....	4	.....	4	.....	.....
.....	9	1	2	.....
.....	2	2	4	4
.....	1	.....	1	4	6	1	.....
.....	1	.....	1	3	2	.....	.....
.....	2	.....	2	7	7	.....	.....

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, EXHIBITING THE NUMBER OF

Counties.	Class 4.—Developmental diseases.							
	Order 1.—Developmental diseases of children.							
	4. Spinifidia.		5. Other malformations.		6. Teething.		Total deaths, Order 1, Class 4.	
	M.	F.	M.	F.	M.	F.	M.	F.
Logan	1	1	1	1	5	2	13	11
Lorain					1	2	8	10
Lucas							10	9
Madison							1	1
Mahoning					1		1	
Marion								1
Medina			1				2	4
Meigs							4	1
Mercer								
Miami							1	1
Monroe	1	1					21	16
Montgomery			3				36	22
Morgan				1			10	6
Morrow			2	1			5	1
Muskingum							2	
Noble								
Ottawa								1
Paulding							3	1
Perry							1	1
Pickaway						1	1	2
Pike								1
Portage							3	
Preble	1						5	3
Putnam							1	3
Richland							9	
Ross	1						8	4
Sandusky					5	5	8	11
Scioto	1		5				8	3
Seneca				1	1	1	2	4
Shelby							3	
Stark		2		1	1	1	10	6
Summit				1			1	1
Trumbull					1		1	
Tuscarawas							6	3
Union							3	
Van Wert								
Vinton		1						1
Warren					2		2	
Washington				1	2		13	17
Wayne							2	3
Williams	1						3	
Wood						1	3	5
Wyandot								1
Totals	7	8	18	19	51	34	458	311

NOSOLOGY—Continued.

DEATHS, AND THE CAUSES OF DEATH, ETC.—Continued.

Class 4.—Developmental diseases.

Order 2.—Developmental diseases of adults.						Order 3.—Developmental diseases of old people.		Order 4.—Developmental diseases of nutrition.	
1. Paramenia (menstrual disease).		2. Child-birth.		Total deaths, Order 2, Class 4		Old age (total).		Atrophy and debility (total).	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	1	.....	1	.....	2	.....	7	.....	1
.....	1	.....	1	.....	19	.....	.....
.....	3	.....	3	.....	17	.....	.....
.....	3	.....	2
.....	2	.....	2	.....	6	.....	.....
.....	1	.....	1	.....	6	.....	.....
.....	1	.....	1	.....	12	.....	.....
.....	4	.....	4	.....	8	.....	.....
.....	1	.....	1	.....	8	.....	.....
.....	2	.....	2
.....	6	.....	6	.....	4	.....	2
.....	5	.....	5	.....	25	.....	6
.....	3	.....	.....
.....	1	.....	1	.....	9	.....	2
.....	3	.....	3	.....	15	.....	10
.....	7	.....	.....
.....	6	.....	6	.....	4	.....	.....
.....	1	.....	.....
.....	3	.....	3	.....	8	.....	.....
.....	4	.....	4	.....	6	.....	1
.....	5	.....	.....
.....	5	.....	11
.....	2	.....	2	.....	8	.....	.....
.....	2	.....	2	.....	9	.....	.....
.....	3	.....	3	.....	7	.....	.....
.....	1	.....	1	.....	8	.....	2
.....	3	.....	3	.....	8	.....	.....
.....	3	.....	3	.....	2	.....	.....
.....	3	.....	3	.....	11	.....	.....
.....	1	.....	1	.....	5	.....	.....
.....	3	.....	3	.....	16	.....	.....
.....	1	.....	1	.....	10	.....	1
.....	2	.....	2	.....	10	.....	.....
.....	9	.....	9	.....	10	.....	.....
.....	5	.....	.....
.....	1	.....	1	.....	3	.....	.....
.....	1	.....	3	.....	4	.....	4	.....	.....
.....	1	.....	3	.....	4	.....	10	.....	3
.....	2	.....	2	.....	22	.....	2
.....	1	.....	1	.....	11	.....	1
.....	1	.....	3	.....	4	.....	1	.....	1
.....	5	.....	5	.....	4	.....	.....
.....	3	.....	3	.....	5	.....	.....
.....	10	.....	190	.....	200	.....	691	.....	90

VITAL STATISTICS.

NOSOLOGICAL ARRANGEMENT, SHOWING THE NUMBER OF

Counties.	Class 5.—Violent deaths.													
	Order 1.—Accident or negligence.													
	1. Fractures and contusions.		2. Burns and scalds.		3. Poison.		4. Drowning (and lost at sea.)		5. Suffocation and strangulation.		6. Otherwise.		Total deaths, Order 1, Class 5.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Adams		1	2								2		4	1
Allen	1			1		1					4	2	5	4
Ashland											5	1	5	1
Ashtabula			2								9		11	
Athens					1		1						2	
Anglaize	2	1		2									2	3
Belmont	1			2	2	2	3				10		16	4
Brown	1		1	2	1		1				8		12	2
Butler			2	1			2	1			6	4	10	6
Carroll			1						1		2		4	
Champaign							1						1	
Clarke	2										2		4	
Clermont		1		2			1						1	3
Clinton			1	3		1	1						2	4
Columbiana				2							1	1	1	3
Coshocton	3			1									3	1
Crawford			1	2				1			1	1	2	4
Cuyahoga			3	1			5	3	1		15	11	24	15
Darke	1				1						5		7	
Defiance			2		1		1						4	
Delaware					1						7	1	8	1
Erie			1	1			2				2	1	5	2
Fairfield											3		3	
Fayette			1								2		3	
Franklin			1	1			1				9	1	11	2
Fulton												1		1
Gallia	2			2									2	2
Geauga											3	1	3	1
Greene	1		1	1									2	1
Guernsey														
Hamilton			4	4	1	4	8		1		1		15	8
Hancock	4	1							3	2			7	3
Hardin			1	1	1						2		4	1
Harrison	1			1									1	1
Henry							1	1			2		3	1
Highland														
Hocking				1					1				1	1
Holmes	4	1			1				1		1		1	1
Huron											1	1	6	2
Jackson	2		1	1			1		2		16	3	22	4
Jefferson							1				5		6	
Knox					1	2							1	2
Lake	1		1	1			1				1		4	1
Lawrence			7	2		1							7	3
Licking	2	1	1				1	1			8	1	12	5

NOSOLOGY—Continued.

DEATHS AND THE CAUSES OF DEATHS, ETC.—Continued.

Class 5.—Violent deaths.

Order 2.		Order 3.		Order 4.		Order 5.		Order 6.		Order 7.			
Battle or riot.		Homicide.		Suicide.		Execution.		Other violent deaths.		Sudden deaths and causes unknown.		Total deaths, Orders 2, 3, 4, 5, 6, 7, Class 5.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
				1				1				2	
		1						1				2	
1				1						7	7	7	7
								2	1	6	12	8	12
				1						5	4	7	5
								4	1	38	28	39	28
										29	31	33	32
										1			1
					1					91	51	91	51
						1				1	7	1	8
				1						15	9	16	9
				3						5	6	6	6
										22	22	25	24
			1	3				2		13	11	15	11
1				1				3		3		9	1
										28	19	30	19
1		1		3				10	1	14	18	14	18
		1								41	38	56	39
								4		21	25	22	25
									2	13	11	13	13
				1					2	12	14	13	16
				2				7		6	3	15	3
		2		1						19	11	19	11
								1		42	39	45	39
										14	25	15	25
				1						4	1	4	1
				1						14	5	15	5
				1					1	23	22	24	23
					1			2		5	6	7	7
		1	1	11	4			15	6	368	357	395	368
		1										1	
										11	13	11	13
				1				1		6	3	7	3
					1					1		1	
1								2	1	14	24	16	26
								3				4	
										1	5	1	5
				2				1		7	9	10	9
					1								1
								1		21	26	22	26
				3	1			1		12	6	12	6
								1		2	4	6	5
		2										2	
		1		3				1		12	11	17	11

VITAL STATISTICS.—

NOSOLOGICAL ARRANGEMENT EXHIBITING THE NUMBER OF

Counties.	Class 5.—Violent deaths.													
	Order 1.—Accident or negligence.													
	1. Fractures and contusions.		2. Burns and scalds.		3. Poison.		4. Drowning (and lost at sea).		5. Suffocation and strangulation.		6. Otherwise.		Total deaths, Order 1, Class 5.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Logan		1						1			1		1	2
Lorain							1				4	2	5	2
Lucas	2		1				1		1				4	1
Madison				2							1		1	2
Mahoning			1		1			1			11	1	13	2
Marion				1							3	1	3	2
Medina	6			1			2	1				1	6	3
Meigs			1		1				1		4		9	
Mercer				2			1						1	2
Miami			2		1						2		5	
Monroe			3				4				2	2	7	2
Montgomery	12	1	3	3		1	3	1	2		4	2	24	9
Morgan	3										2	1	5	1
Morrow				1		2					1	2	1	5
Muskingum	1	1		2	1		4				6	1	12	4
Noble	3	1	1										4	1
Ottawa	1		1				2				2		6	
Paulding	1										2		3	
Perry	2		2	1		1	2				2		8	2
Pickaway				1			1		1		2		4	1
Pike				1							14	13	14	14
Portage		3									1	2	1	5
Preble				1										1
Putnam		1									2		2	1
Richland	1							1			2		3	1
Ross				1	1		4	1			4	1	9	3
Sandusky	1	2						1			1		2	3
Scioto			1	1			1	2			3		5	3
Seneca			1				1		2		5	1	9	1
Shelby				2					1		9	4	10	6
Stark				3			1		1		13	1	15	4
Summit			1				3	1			6		10	1
Trumbull	2		2	2			3		5		7		19	2
Tuscarawas			1	1			2				7	3	10	4
Union				2							2		2	2
Van Wert							2			2	1	1	3	3
Vinton	1		1								2		4	
Warren			1				1	1			8	2	10	3
Washington							5	3	1	1	4		10	4
Wayne		1	1	1			1		1		2		5	2
Williams				1									1	1
Wood		1	1			1	2				7		10	2
Wyandot	2												2	
Totals	66	18	60	65	16	16	79	21	24	7	280	71	525	198

NOSOLOGY—Continued.

DEATHS AND THE CAUSES OF DEATH, ETC.—Continued.

Class 5.—Violent deaths

Order 2.		Order 3.		Order 4.		Order 5.		Order 6.		Order 7.		Total deaths, Orders 2, 3, 4, 5, 6, 7, Class 5.	
Battle or riot.		Homicide.		Suicide.		Execution.		Other violent deaths.		Sudden deaths and cause un- known.			
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
.....	1	.....	.....	.....	2	.....	5	.....	8	.....
.....	1	1	.....	.....	.....	.....	.....	1	1
.....	104	95	104	95
.....	7	9	7	9
.....	2	.....	14	20	20	20
.....	1	.....	.....	.....	.....	.....	14	12	15	12
.....	1	.....	8	6	9	6
.....	1	.....	1	.....	.....	.....	.....	.....	9	6	11	6
.....	32	25	32	25
.....	1	.....	.....	.....	4	1	29	31	34	32
.....	1	.....	.....	.....	.....	.....	.....	1	1	1
.....	2	.....	6	.....	1	.....	.....	.....	38	15	47	15
.....	2	.....	2	2	4	2
.....	2	.....	.....	.....	.....	.....	5	4	7	4
.....	1	2	.....	.....	6	1	10	10	17	13
.....	22	20	22	20
.....	11	2	11	2
.....	3	.....	7	15	10	15
.....	1	.....	1	.....	.....	.....	.....	.....	25	23	27	23
.....	1	.....	.....	.....	.....	.....	1	.....	25	34	27	34
.....	2	.....	.....	.....	3	.....
.....	1	7	1	7
.....	5	6	5	6
.....	25	21	25	21
.....	1	.....	.....	2	.....	.....	.....	.....	15	26	16	28
.....	1	1	.....	.....	.....	.....	1	.....	32	30	34	31
.....	1	.....	1	1	.....	.....	.....	.....	14	6	16	7
.....	3	1	67	51	70	52
.....	1	.....	.....	1	.....	.....	.....	1	1
.....	1	.....	.....	.....	.....	.....	16	8	17	8
.....	1	.....	2	.....	.....	.....	5	.....	19	14	27	14
.....	1	.....	1	.....	.....	.....	1	.....	4	8	7	8
.....	1	.....	4	.....	.....	.....	.....	.....	24	24	29	24
.....	1	1	.....	.....	.....	.....	42	23	42	24
.....	1	12	10	12	11
.....	1	.....	.....	.....	.....	18	15	18	16
.....	1	.....	.....	.....	1	.....
.....	1	.....	4	.....	.....	.....	.....	.....	.....	.....	5	.....
.....	1	.....	1	2	.....	.....	1	.....	6	11	9	13
.....	1	.....	.....	.....	2	.....	6	3	9	3
.....	1	.....	.....	.....	.....	.....	13	19	14	19
.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
.....	1	.....	10	7	11	7
4	24	3	73	20	3	.....	101	19	1645	1505	1850	1547

TABLE SHOWING THE NUMBER OF INQUESTS HELD IN OHIO BY CORONERS AND JUSTICES OF THE PEACE FOR THE YEAR ENDING JUNE 30, 1878.

Counties.	Homicide.	Suicide.	Killed by accident.	Other sudden deaths and deaths from unknown causes.	Total number of inquests held.	Nativity.		
						Native.	Foreign.	Unknown.
Adams	1	1			2			2
Allen		1	1		2			2
Ashland		1	1	2	4	1		3
Ashtabula	1			2	3	1		2
Athens	1	2	1	1	5			5
Anglaize				3	3			3
Belmont	1		10	1	12	3		9
Brown	2			6	8		4	4
Butler	2	6	15	8	34	7	6	21
Carroll		1		1	2			2
Champaign	1	2	7	1	11	6	4	1
Clarke		1	2	1	4	2		2
Clermont	1	1		5	7		1	6
Clinton	1				1			1
Columbiana	1		2	2	5	1	1	3
Coshocton*								
Crawford		1			1			1
Cuyahoga		10	11	1	22	6	14	2
Darke	1		4	1	6	4	1	1
Defiance		1	4	2	7	3	2	2
Delaware	3				3	1		2
Erie		4	19		23			23
Fairfield		4	3	4	11	2		9
Fayette	1	2	1	1	5	4	1	
Franklin	2	4	9	22	37			37
Fulton		2			2			2
Gallia	1	1	1	4	7			7
Geauga*								
Greene	1	2	3	3	9	4	1	4
Guernsey		2	1		3			3
Hamilton	26	63	150	301	540	135	108	297
Hancock	1				1			1
Hardin		3	1	2	6	4	2	
Harrison*								
Henry		1	2	1	4			4
Highland		2	7	2	11			11
Hocking				2	2			2
Holmes			2	2	4	1		3
Huron	2		3	1	6		1	5
Jackson		1	2		3	2		1
Jefferson	3	2	10	13	28	17	3	8
Knox	1	1		2	4			4
Lake		3	5		8			8
Lawrence	3	1	8		12	4	2	6
Licking	3	10	1	2	16			16
Logan	1		2	1	4	3		1
Lorain	1	2	10		13			13

TABLE SHOWING THE NUMBER OF INQUESTS HELD IN OHIO—Continued.

Counties.	Homicide.	Suicide.	Killed by accident.	Other sudden deaths and deaths from unknown causes.	Total number of inquests held.	Nativity.		
						Native.	Foreign.	Unknown.
Lucas	14	8	60	34	116	36	22	58
Madison				8	8	1	1	6
Meioning		3	15	5	23	6	6	11
Marion		2	2		4			4
Medina				2	2			2
Meigs	2	1	3		6			6
Mercer				1	1			1
Miami		2	1	1	4	2	2	
Monroe		1	5		6			6
Montgomery	2	10	9	23	44	28	14	2
Morgan	2	2			4	2		2
Morrow		1	1		2	2		
Muskingum	1	6	9	2	18	16	1	1
Noble			2		2		1	1
Ottawa		2	7	2	11	6	1	4
Paulding			2		2			2
Perry	1	1	6		8	2		6
Pickaway	1	1	1	3	6		1	5
Pike	1	1	1	3	6	2	2	2
Portage	1		2		3	1		2
Preble		3	3	4	10	1	4	5
Putnam			1		1			1
Richland	3	3	8	3	17	2		15
Ross	6	4	6	7	23	1		22
Sandusky	2	2	2	1	7	5	1	1
Scioto	2		8	9	19			19
Seneca		3	1		4	2		2
Shelby	3	3	3	3	12	3	2	7
Stark	4	3	10	1	18	5	7	6
Summit	3	1	6	1	11	8		3
Trumbull		3	17		20	3	11	6
Tuscarawas	1	4	3		8	1	4	3
Union			1		1	1		
Van Wert	1	1			2			2
Vinton				2	2			2
Warren	1	2	4	4	11			11
Washington		2	1	2	5	1		4
Wayne	1	1	3		5	3		2
Williams	1	2			3			3
Wood		4	3	4	11	1	2	8
Wyandot	1		2	2	5		2	3
Totals	116	220	509	527	1372	352	235	785

* Not reported.

VITAL STATISTICS.

BY D. N. KINSMAN, M.D.

State medicine has only quite recently attracted the attention of scientific men in the United States of America. Several States have established Boards of Health, which have been doing a great amount of valuable work, notably, those of Massachusetts and Michigan.

Thus far the only work which has been provided for by the State of Ohio is the collection of vital statistics. And yet so little is the value of this work appreciated by the county officers, whose duty it is to furnish correct data, that their reports give intrinsic evidence of the grossest imperfection. This work is worth all the effort which may be necessary to make the statistical reports of the Secretary of State of the highest excellence and reliability.

For a long time, in many of the leading nations of Europe, statistics have been carefully compiled. From their study, Buckle was able to deduce the law of averages, which controls all causes of death. Accidents terminating in death, by firearms, runaways, etc., subjects when considered singly seemingly little capable of being referred to a general law, when collected year after year, and compared with the total population, are found to have a ratio varying but little. Homicides, suicides, criminal acts of all kinds against life, appear in the same manner, with almost a constant ratio to the population, making a man think he is in the hands of Fate, and no longer master of his own destiny.

Going into a deeper analysis, we find social habits, education, wealth, and poverty are factors which enter into the complex problem of State medicine. From what has been already learned by the study of statistics in respect to Europe, we are led to expect much from those of America, when they shall be gathered. And it will be an interesting study, when some future Buckle shall compare the civilizations of Europe and America, and from the testimony drawn from statistics, deduce the laws which have from the foundation of this Republic directed its destiny along lines parallel to or divergent from those already drawn by the older civilization.

Only when this is done fully, will finally be settled the question of what is the best government for mankind. This is not a question to be answered by the preferences of this or that individual, or the amount of

personal freedom which every one may enjoy, but the answer must come only when, from the conclusions drawn from statistics, we can say the economic value of a human life is greater under this or that form of government. When the "classes" of the present time have lost their distinctions, and all have approached the "mean," under any form of government, the problem will be solved.

The gross mortality of a State, compared with the population, establishes the death ratio, but statistics which show the cause of each death have a far higher value. Such statistics should rest on an accurate diagnosis, and when this is possible, they become of the very highest value in State medicine.

The comparison of special mortality tables with soils, water-supplies, thermometric and barometric readings, largely determine the etiology of any given disease. The religious and social customs of any people may enter into the problem of causes of disease. The sweating sickness, which so severely scourged England in the fourteenth century, is believed to have depended upon the choice of locations for dwellings. The Black Death had overspread Europe from Asia during the middle of the fourteenth century. The impotence of medicine turned the attention of the whole people to an observance of their religious duties. Lent was observed with the greatest rigor. In order that a supply of fish might be easily obtained, men placed their habitations by the lakes and rivers. These became contaminated with the filth of the people, the water used for drinking poisoned, and the vapors arising from the foul streams contaminated the air, until the enfeebled bodies of men again became a prey to pestilence. Cholera epidemics of the present times furnish us with another example of the influence of religious fanaticism which, while working its own destruction, involves the whole race.

Our speedy modes of transit introduce and spread diseases with far greater rapidity than formerly, and cholera may appear at our doors in a few weeks, traversing the distance, hitherto occupying years, in as many months. Study of diseases, in respect to etiology and mortality, tells what the causes are, and whether it is to be feared. Physicians have a duty to discharge to the State, because much which is embodied in vital statistics must depend upon their reports. On them lies the duty of making a correct diagnosis in every case where it is possible. From the long list of deaths in the reports from the department of State which are included under dropsy, lung diseases, brain diseases, etc., without any effort further to specify their nature, an immense amount of indifference or negligence, not to call it by a worse name, may be readily seen.

In order that the reports of the Secretary of State may become of value,

let the physician giving information be specific in every particular; especially in the department of vital statistics, for he will be the first to derive benefit from perfect reports. Any benefit a community may secure will come second-hand.

Below I shall give some facts which I have been able to deduce from a study of the vital statistics of Ohio. I use the population of Ohio as given in the ninth census as the basis of calculation. In some instances I have been obliged to make corrections when the figures given gave intrinsic evidence of being wrong.

In Hamilton county the number of births reported for the year 1877 is 444; at the same time the number of deaths reported as occurring in children under one year, is said to be 811. This is obviously incorrect. In order to arrive at an approximate to the truth, instead of using 444 as the number of births occurring in Hamilton county, I have used 5,943, the number reported in 1874, since which time, as well as for several reports previous, no trustworthy data on this subject have been attainable.

Without this correction the mortality of Ohio for infants and children under five years would rank among the highest reported from any country in the world.

TABLE SHOWING THE RATIO OF MORTALITY OF NATIVE, FOREIGN, AND COLORED TO POPULATION.

Population of Ohio in 1870.		Per cent. of total.	Per cent of mortality 1870.	Per cent of mortality 1877.	Comparison of mortality with population in 1877.
Native born	2,229,782	83	64	78	5 per cent. too small.
Foreign	372,493	14.2	33.6	20	5.2 too large.
Colored	63,112	2.4	2.4	2	0.4 too small.

There must be some cause for this variation of ratio.

The colored race, which is less affected by financial or other disturbances in our social life than the white, has maintained almost a constant ratio of mortality to its entire population. The native born, as well as the foreign, have approached their normal ratio during a period of seven years, but the mortality of the native white population has not yet equaled the ratio of population; while that of the foreign born is still excessive. What is the cause of this variation? This obviously must lie in the social condition and modes of obtaining subsistence. Our foreign population are artisans. They have been subject to great stress in the financial embarrassment of the country. Wages have been reduced, or there has been a loss of employment, and their greater poverty has

compelled them to live under less favorable circumstances in relation to subsistence, shelter, and clothing.

This is a state of things which is not peculiar to Ohio. The same condition of affairs exists in Massachusetts and other States from which we have been able to gather data.

The following table gives the ratio of deaths under one year and under five years to the total number of births in Ohio for 1877, and the countries and States named for other years:

Whole number of births	69,506
Deaths under one year	6,163
Deaths under five years	10,452

RATIO OF BIRTHS TO DEATHS.

Country.	Under one year.	Under five years.
Ohio	8.8	15
Norway	10.71	18.82
Massachusetts	13.91	25.62
England	15.40	26.37
Russia	17.94	29.61
Bavaria	34.04	40.64

See Mass. Health Report, 1873.

If we could be sure of our ground, infant life has a higher value in Ohio than elsewhere in the world, a position hitherto held by Norway.

Dr. Farr says the proportion of children raised has doubled in one hundred years. In London the proportion of children who died under five years was, from 1730 to 1749, 74.5 per cent.; from 1770 to 1789, 51.5 per cent.; from 1851 to 1870, 29.8.

In London, from 1675 to 1732, convulsions, mainly a disease of childhood, caused 23.91 per cent. of all deaths; from 1860 to 1870, 3.3 per cent. of all deaths. In Massachusetts, since 1843, 1.8 per cent. have died from convulsions. In Ohio, in 1877, convulsions have caused 3 per cent. of all deaths.

The following table will show that, although the ratio of deaths to births in Ohio is relatively very small, yet when compared with the total mortality is yet large.

Ratio of deaths to total mortality under one year, 21 per cent.; under five years, 36.6 per cent.

Compared with the birth-rate the showing is more favorable in Ohio than any where else; but when we compare the total mortality with that of infant life, we are in excess of that which we find obtaining elsewhere.

More than one-fifth of the mortality of Ohio occurs during the first year of life, and more than one-third under five years.

In this connection let us present some statistics from other sources. (See same Report of Massachusetts Board of Health.) In the British Isles, the following statistics were taken: Of 1,232 deaths occurring in the comfortable classes, the average age was 44 years; of 5,035 deaths among the poorer class, the average age was 27.47 years, while among the poorest classes the average age among 20,385 deaths was 19.58 years. In Boston, of children of native parentage, 16.47 died in the first year, and 26 per cent. before the fifth year; of children of foreign parentage, 18.13 died during the first year, and 32.79 per cent. before the fifth. This statement is of interest when we refer to the mortality of native-born and children of foreigners in Ohio. Still more interesting is the following statement from the same source: "In England, every person who is married is required to sign the register, and when unable to do so, to 'make their mark.' In the first class there were 648,260 marriages; of these, brides from 20 to 30 per cent. made 'their marks.' In the second class there were 661,929 marriages; of these, brides from 60 to 70 per cent. made 'their marks.' In the first class, 2,231,959 children were born, of whom 14.65 died during the first year. In the second class, 1,776,547 children were born, of whom 24.87 per cent. died during the first year; or, as often as 1,000 children of parents in the first class died, 1,698 of those in the second class died." Can any one doubt that the mortality would have been enhanced in a more startling degree had the comparison been made between an educated and completely illiterate class.

Then we are justified in saying the value of infant life increases *pari passu* with the intelligence, thrift, industry, and success of the community in which they are born, while it declines with the prevalence of ignorance and poverty.

It would be an interesting inquiry to ascertain the relative frequency of premature labors in the two classes, but data are not at hand to allow us to investigate this question.

My impression is that premature births are more common among the better classes, as a result of the social habits of the mother in relation to dress, etc. Further, that more children die as a consequence from a want of development among the comfortable classes, but of this I am not certain.

From Walker's Chart of the Ninth Census, we find Ohio is divided into three zones, in respect to density of population and relation of birth-rate to the population. Beginning in the north-east corner and drawing a line diagonally across the State, we have a territory irregular in out-

line, with from 45 to 90 inhabitants to the square mile. The territory, extending to the State line on the east and south to Marietta, has a child under one year to every 36 or 40 of the population. The region from Columbus east to Zanesville, south to the Ohio River, and west to the west boundary of Clermont county, has a population ranging from 18 to 45 to the square mile, with a child under one year to every 30 to 36 inhabitants. To the north of a line running east and west through Dayton, and north and south through Bucyrus, there is a population of from 18 to 45 to the square mile, and a child under one year to every 30 to 33 of the population.

What social and physical conditions account for the satisfactory condition of Ohio, in comparison with other States and countries?

1. Males are in excess of females in this State, and the wealth and power of any country or State depends upon her active laborers. The greater the number of "bread winners," the better is the provision for those who must be sustained.

2. The uniform distribution of wealth. The per capita distribution for the largest portion of Ohio is from \$550 to \$1,300. Only in the extreme north-west, in the comparatively recently settled portion of the State, and in the south-east section, does the per capita fall below \$550, and such are the physical conditions of these portions of the State that they are capable of a development to place them on a footing equal to the remainder of the State during the present or next decade.

3. General diffusion of education. While in the north-east part of the State, less than 5 per cent. of the population cannot read, in the other sections the proportion is less than 12 per cent.

4. Large proportion of native white population.

5. Great range of productive industries—agriculture, mining, and manufactures. More than 360 acres to the square mile are improved farm lands which produce corn, wheat, and other cereals and dairy products. Hence the few are pinched with want, while the great majority are in comfortable circumstances in "mind, body, and estate."

RATIO OF DEATHS FROM ALL CAUSES TO THOSE CAUSED BY

Contagious, infectious, and miasmatic diseases.....	7,867	27.6
Constitutional diseases	4,431	15.5
Nervous diseases	2,989	10.4
Circulatory diseases	991	3.4
Respiratory "	2,824	9.9
Digestive "	1,084	3.8
Urinary "	350	1.3
Child-birth	248	.8

COMPARATIVE MORTALITY OF CERTAIN DISEASES IN OHIO AND THE UNITED STATES, AS SHOWN BY THE NINTH CENSUS AND STATE REPORTS OF 1870, 1877, AND 1878.

	Consumption.	Cholera infantum.	Croup.	Measles.	Intermittents and re- tents.	Small pox.	Scarlatina and Diph- theria.	Pneumonia.	Cancers.	Cerebro-Spinal, enteric, and typhus fevers.	Dysentery and diarr- hoeas.
1870—U. States..	14.2	4.1	2.2	1.9	2.3	0.9	5.4	8.1	1.3	5.	6.3
1870—Ohio	17.8	3.8	1.9	2.1	1.2	1.1	3.5	6.8	1.4	4.8	6.4
1877—Ohio	14.2	3.9	2.2	1.1	1.6	0.9	3.3	2.8	1.4	2.6	2.2
1878.....	12.3	3.1	1.7	0.6	1.3	.01	7.3	2.3	1.6	5.2	2.2

The impression is gaining ground, in England and America, that cancers are causing greater mortality than formerly. It is an interesting question as to what has caused "this rebellion of cells," as it has been termed. It is an interesting fact that the mortality from pneumonia in Germany is reported, by Juergensen, at six and six-tenths per cent. or twelve per cent. of all the mortality from internal diseases. This shows agreement of statistics in Europe and Ohio. Most impressive is the lesson conveyed by the tables above. The teaching in respect to consumption is particularly suggestive. Authorities concur, in Europe, in telling us that consumption causes twenty-eight per cent. of the total mortality in France and Germany. The statistics of the United States give a mean per cent. of 14.2 of the entire mortality of the country, which is the exact ratio of Ohio in 1877. This shows, as plainly as possible, the chances of perishing from consumption are just one-half as great as in Europe.

We refer for an explanation of this result to the statements which we made above in respect to the causes of the increased value of infant lives in Ohio.

Those influences which husband infant lives, cause stronger and better development of youth and early manhood, and greater resistance to decline. Diarrhœal diseases have declined in Ohio. This may be an effect of time. Many soldiers, after the late war, returned home with camp diseases, *i. e.*, diarrhœas and dysentery. They have died or recovered, and this factor in mortality has diminished sixty-six per cent.

When we study the distribution of mortality from consumption in Ohio we observe some very interesting features. There are three sections which have a mortality of 2,000 in every 10,000 deaths from all causes.

The first of these sections consists of the counties bordering upon the lake; the second section includes an irregularly shaped territory, consisting of Crawford, Richland, Morrow, Knox, Coshocton, Carroll, Jefferson, Harrison, Belmont, Monroe, Washington, Morgan, Noble, Guernsey, and Muskingum counties; the third section is composed of Darke, Preble, Montgomery, Greene, Warren, Clinton, Clermont, Highland, Brown, and Adams. There are, then, three other sections which have a mortality of 1,400: 10,000 deaths from all causes. These sections comprise the remainder of the State, except six counties which lie like an oasis in the regions around: these are Mercer, Van Wert, Auglaize, Allen, Hardin, and Logan, which have a mortality of 900: 10,000 deaths from all causes.

The causes which underlie this difference in mortality are not now apparent. We may remark, however, that the region of the lakes may have its mortality affected by its proximity to such a large body of water—it having been assumed by some writers that the moisture derived from large bodies of water is an etiological factor in consumption. These territories cross all the geologic systems of the State. Why the southern central portion of the State should be bounded on the west by a territory of greater mortality, as well as on the east, is not clear, for the geologic structures as well as the soils are different. The western section contains some of the finest and best cultivated lands of the State. The inhabitants are as comfortably situated as those of any section of the State. On the east of the same section, the country is hilly and broken; in fact, is such a country as Dr. Sabin found in New England to be, populated by a class of people less able-bodied than those who lived in the valleys. This was attributed by him to the sparseness of the population and their inability to readily secure medical aid when suffering from catarrhs of the air passages, and to this may be added greater difficulty in procuring suitable food. These factors counterbalance the advantages of a better atmosphere.

I am not familiar with the surface conditions of the soils of these regions. Herein may be found another factor, for it has been proven fully, by Bowditch, that a thin soil, with the water approaching the surface of soils apparently dry, is a powerful predisposing cause of consumption. When we compare the mortality from consumption with that from miasmatic diseases, we are struck with the fact that those territories which suffer most from consumption are those which suffer the least from miasmatic diseases.

This has been traditional in the profession in Ohio for many years, but these charts render the statements positive. The distribution of enteric, cerebro-spinal, and typhus fevers is equally interesting, but our limits

do not allow us to enter into its discussion at this time. It has been found in Europe that the average yearly sickness amounts to nineteen or twenty days per person; that for every death two persons are constantly sick—which makes every death represent an illness of seven hundred and thirty days.

The mortality in the hospitals of America and Europe, gives one death for every ten of those who are admitted. In America it has been estimated one in every twenty-eight who are sick die. With the above statements before us, we are now able to study the economic side of the vital statistics of Ohio. There were 28,460 deaths during 1877. Each death represents a loss of two years time or 730 days, or an aggregate loss of time of 56,920 years. Estimating the active working life of a man at twenty years, we find each year in Ohio there is a loss of labor amounting to the life work of 2,846 men. Reckoning an average pay of one hundred and fifty dollars per year, and this represents a yearly loss of capital to the State of Ohio of \$8,538,000, not including the items, which must be added for medical attendance, nursing, etc. It is only when we go into the study of figures, that we can appreciate the influence of disease on a community. A point we must not lose sight of, is that diseases which afflict humanity are not matters of chance. They are as much subject to laws as anything else. They are dependent upon a concurrence of certain conditions which are known as etiological factors. These factors are two-fold internal and external to the patient; remove either of the two and the possibility of disease is at an end. In respect to the patient we have to consider organization, constitution, and general condition of the body. The stronger the body is, the more certainly it can strive against the general causes of disease. A robust body gives, however, no immunity against special causes of disease. The special causes comprise the viruses and contagions. These all have their course when once they gain entrance to the body in spite of its condition.

But it has been further learned that these specific contagions have their peculiar modes of evolution and propagation.

1. In one class, the contagion is found in the human body alone, and can act immediately on another unprotected human body.

2. In another class the contagion is found in the human body, but as it escapes from the body it is harmless, and only becomes active after a more or less prolonged sojourn outside of the body under favorable circumstances.

3. And yet another class of diseases arises from infecting matter which is produced external to the body, and by its reception becomes the factor of disease.

The recognition of these modes of evolution and propagation of disease, has enabled physicians to say diseases are of two general classes, preventable and non-preventable. The more diseases have been studied, the larger has the first class become, and there is no doubt that many diseases whose causes are as yet unrecognized, will, in time, give up their etiological secret and become subject to hygienic precautions.

State medicine can indicate to the executive branch of a government what is necessary to save life and protect health, but when this is left to the option of any people, prejudice or superstition on the part of a few, may cause such a neglect of measures of common safety as seriously to threaten the safety of the majority. This is notable in the case of small pox. Vaccination, thoroughly performed and repeated, till susceptibility to its action is extinguished, will, I have no doubt, protect from small pox, and yet 265 persons died from this disease in Ohio in 1877, a mortality of nearly one per cent. Certainly if we legislate against petty larceny, and other crimes against persons, much more should legislation be had on the subject of vaccination, which, we believe, will save the one per cent. of annual loss of life from small pox in Ohio, and the United States. As to measles, and scarlet fever, we know their ravages can be stayed by isolation of the patients and systematic disinfection. These diseases give no evidence of arising *de novo*. The germ must fall on a favorable soil for its development. Restrict the action of the germ by isolation and destruction and the disease will cease. On the Faroe Islands there were no cases of measles from 1781 to 1849. Then the poison of the measles was carried to the island, and all but 1,500 of 7,782 of the population took the disease, which only ceased when the material on which it could thrive was exhausted.

There is a fatalistic notion which has taken root in the minds of parents, that there are certain classes of affections known as "children's diseases," which all must suffer unless they have a natural immunity. This was the feeling in the eighteenth century in regard to small pox, and then, as now, the effort was not so much to avoid infection as to select a favorable season. This is a false philosophy, which must be rooted out of the minds of the people. Let them understand there are no favorable times for sickness, and then, and not until then, will scarlet fever and diseases of its class, cease to send their hecatombs to death every year. Under the same head we may place diphtheria, whose causes are yet but little known. One thing we know, it is contagious, and the kiss of affection upon the lips of the infected one, has planted the seeds of death in the loving parent or child. The death recently of Princess Alice, of the royal family of England, is a melan-

choly instance in point. Her infection was derived from her child, who had been sick of diphtheria. Dr. E. M. Snow says: "It is certain diphtheria is a filth disease, and usually spreads from the influence or effects of foul air arising from localized filth. The contagion of diphtheria never produced any extensive prevalence of the disease without the presence and aid of this local filth. A mortality of 1469 is due to this cause in Ohio in 1877. How shall we reach the people to tell them of their peril from filth?"

In their experience with the second class of diseases, physicians have won their greatest victories. It is true, not as healers, but in the prevention of diseases. In the second class we place typhoid fever, cholera and yellow fever.

Sanitary measures seemed impotent in the contest with yellow fever during the last summer and autumn. But we must remember the pestilence began its march from causes existing. These causes could not be removed during the epidemic, for all effort was palsied or exhausted in the terrific struggle with a present foe. Sanitary measures will prevent its return, or rob it of its strength. The cholera epidemic of 1873, is still fresh in the minds of my readers. The progress of this disease was arrested in central Ohio, for it did not spread north of Springfield or east of Lancaster. This was due to the energetic sanitary measures.

Typhoid fever is in like manner subject in a large measure to the same sanitary precautions. It is unfair to any family to allow the disease to spread unchecked, without an effort to ascertain the cause. The causes can, in the greatest number of cases, be discovered, and when discovered they can be destroyed. Filth is the parent or the foster parent of all this class of diseases. Remove filth and you remove the soil on which the disease germs thrive. We have known scarlet fever and typhoid fever to follow the milk-man's cart. The germs of these diseases had found their way to the milk by its exposure to the poison-laden air, or the water used to cleanse the cans, or for a less justifiable purpose had been contaminated before use.

Drainage and cultivation has diminished very largely the mortality of Ohio from miasmatic diseases during the last score of years, but much more remains to be done.

The pride of Ohio is her public school system. But more is now spent in making the exterior of the buildings attractive than to make their interior healthy—and when I study the statistics and observe the sudden rise of mortality from consumption, at the ages when school life is ended, I cannot but think there is some connection between it and the long confinement of pupils in over-crowded rooms; for it is a fact that none of

the larger towns of Ohio that have accommodations sufficient to suitably provide for their pupils. Lack of breathing space means filth, and filth causes death.

During the last 200 years the working period of human life has extended from 8½ years to twenty years. What has caused this? Increased comforts, better food, shelter, and clothing, higher and better education, a constantly increasing efficiency in the medical profession, and the recognition of removable causes of disease; and the establishment of health boards all tend to the production of this result.

Yet the vital statistics of Ohio show an alarming prevalence of a class of diseases, which are known to be to a very great extent under the control of sanitary measures. Has the State any duty to her population in this behalf. The allegiance of a citizen is due to the State, and the State may demand his life in her defence. Does not the State, in turn, owe the citizen something more than the protection accorded to him in the constitution. In my opinion there is something more demanded than is conceded in the bill of rights. The State owes it to her citizens to ascertain all causes which threaten life and comfort, so far as practicable. The State owes to her citizens protection—from diseases and death—when this protection can be given. The establishment of a State Board of Health, composed of men of known ability, regardless of political faith, to study carefully and exhaustively all forms of disease, whether epidemic or sporadic in relation to their causation, is imperatively demanded by the humanitarian spirit of the age. Their conclusions should be given to the people for their instruction and protection.

The citizens of the State who live in the rural sections must be taught in what manner they are constantly allowing to accumulate on their premises heaps of filth which contaminate the springs from which they drink. They must be taught that the wells on their premises may become pits into which all forms of filth thrown upon the surface of the soil may drain. They must be taught that in the open country that the common privy becomes a nuisance to taint the air and enfeeble the body and thus render it an easy prey to all forms of disease.

The greater care devoted to these things in our cities has inverted the ordinary death rate, and our cities are now healthier than the country districts. Here is work for a State Board of Health, which, if ever accomplished in Ohio, will yield a better interest on the investment than any other industry.

AMERICAN SOCIAL SCIENCE ASSOCIATION IN BOSTON.

Mr. George T. Angell read a paper before the American Social Science

Association in Boston, on January 8, "Public Health Associations," in which he made some startling assertions about the adulteration of food. He said:

"Cayenne pepper is adulterated with red lead, mustard with chromate of lead, curry powder with red lead, vinegar with sulphuric acid, arsenic, and corrosive sublimate. It is stated that probably half the vinegar now sold in our cities is rank poison. One of our Boston chemists analyzed twelve packages of pickles, put up by twelve different wholesale dealers, and found copper in ten of them. Many of our flavoring oils, syrups, jellies, and preserved fruits contain poisons. The adulterations of tea are too numerous to mention. Coffee is not only adulterated, but a patent has been taken out for molding chicory into the form of coffee berries, and I am told that clay is now molded, and perhaps flavored with an essence, to represent coffee. Cocoa and chocolate are adulterated with various mineral substances.

"Several mills in New England, and probably many elsewhere, are now engaged in grinding white stone for purposes of adulteration. At some of these mills they grind three grades—soda grade, sugar grade, and flour grade. It sells for about half a cent a pound. Flour has been adulterated in England, and probably here, with plaster of paris, bone dust, sand, clay, chalk and other articles. I am told that large quantities of damaged and unwholesome grain are ground in with flour, particularly with that kind called the Graham flour. Certainly, hundreds, and probably thousands, of barrels of 'terra alba,' or white earth, are sold in our cities every year to be mixed with sugars in confectionery and other white substances. I am told by an eminent physician that this tends to produce stone, kidney complaints, and various diseases of the stomach. A Boston chemist tells me that he has found seventy-five per cent. of 'terra alba' in what was sold as cream of tartar used for cooking. A large New York house sells three grades of cream of tartar. A Boston chemist recently analyzed a sample of the best grade, and found fifty per cent. of 'terra alba' in them. Much of our confectionery contains thirty-three per cent. or more of 'terra alba.' The coloring matter of confectionery contains lead, mercury, arsenic, and copper. Baking powders are widely sold which contain a large percentage of 'terra alba' and alum.

"It is not water alone that is mixed with milk. Thousands of gallons, and probably hundreds of thousands, are sold in our cities which have passed through large tins, or vats, in which it has been mixed with various substances. Receipts for the mixture can be bought by new milkmen from the old, on payment of the required sum. I am assured, upon what I believe to be reliable authority, that thousands of gallons of so-called milk have been, and probably are, sold in this city, which do not contain one drop of the genuine article. Large quantities of the meats of animals more or less diseased are sold in our markets. Cows in the neighborhood of our large cities are fed upon material which produces a large flow of unwholesome milk. Poultry is fed upon material which produces unwholesome eggs. Meats and fish are made unwholesome, frequently poisonous, by careless and cruel methods of killing. A California chemist recently analyzed many samples of whisky, purchased at different places in San Francisco. He found them adulterated with creosote, salts of copper, alum, and other injurious substances. He states it in his published report, as his opinion that there is hardly any pure whisky sold in that city. A gentleman recently purchased from a prominent Boston firm a cask of pure sherry wine for his sick wife. His wife grew worse. He had the wine analyzed, and found there was not a drop of the juice of the grape in it. An eminent medical gentleman of Boston said to me: 'The adulterations of drugs in this country are perfectly abominable.' I say that laws should be

enacted and enforced prohibiting the manufacture and sale of these poisonous and dangerous articles under severe penalties, and compelling the manufactures and sellers of adulterated articles to tell buyers the precise character of the adulterations."

Does any one believe these methods of adulterations of food and drink are peculiar to Massachusetts? Certainly they are not and the protection of our population demands a Board of Health in Ohio who shall fearlessly unearth all such villainies and visit upon the perpetrators the punishment their crime against humanity demands.

PUBLIC DEBTS, PROPERTY,
AND
TAXATION.

PUBLIC DEBTS, PROPERTY, AND TAXATION.

The tables relating to State indebtedness, the debts of counties, townships, cities, villages, and school districts in Ohio, valuations, property, and taxation, are collated from the report of the Auditor of State, for current year :

THE PUBLIC FUNDED DEBT OF THE STATE.

On the 15th day of November, 1877, the Public Funded Debt of the State
 was \$6,479,505 30

The redemptions during the year were—

Loan of 1875	2,700 00
Balance outstanding November 15, 1878.....	\$6,476,805 30

This sum consists of the following loans—

FOREIGN DEBT—PAYABLE IN NEW YORK.

Loan payable July 1, 1863, not bearing interest.....	\$2,500 00
Loan payable after June 30, 1881, bearing 6 per cent. interest.....	4,072,640 30
Loan payable after December 31, 1886, bearing 6 per cent. interest.....	2,400,000 00
Total Foreign Debt	\$6,475,140 30

DOMESTIC DEBT—PAYABLE AT COLUMBUS.

Canal loan, not bearing interest.....	\$1,665 00
Total Domestic Debt.....	\$1,665 00
Total Funded Debt.....	\$6,476,805 30

IRREDUCIBLE STATE DEBT.

Trust funds	\$4,260,983 78
-------------------	----------------

LOCAL DEBTS.

The debts of counties, townships, cities, villages, etc., are shown in the annexed table :

COMPARATIVE STATEMENT OF THE STATE AND LOCAL DEBTS, FROM 1872 (THE FIRST YEAR IN WHICH RETURNS WERE MADE UNDER THE ACT OF MAY 2, 1871) TO 1878 INCLUSIVE.

Class of Debts.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Funded State Debt (loans).....	\$8,583,546 37	\$3,211,062 10	\$7,938,205 30	\$7,949,920 12	\$6,484,503 30	\$6,479,505 30	\$6,476,805 30
Irreducible State Debt (trust funds)...	4,023,475 03	4,070,500 96	4,121,393 62	4,177,668 31	4,207,716 90	4,231,404 53	4,260,983 78
<i>Local Debts.</i>							
Debts of counties.....	\$3,756,436 03	\$3,125,532 27	\$3,489,575 62	\$3,044,578 90	\$2,934,099 43	\$2,909,462 27	\$3,169,517 42
Debts of cities, first and second class..	11,495,591 04	14,527,108 78	15,899,112 83	20,250,722 11	*30,510,503 68	*33,762,136 07	35,799,851 70
Debts of incorporated villages	616,559 63	730,582 38	884,355 18	931,362 64	1,074,069 05	979,351 15	917,417 64
Debts of townships.....	447,238 10	401,510 18	329,339 08	222,974 13	226,724 83	208,382 58	160,953 72
Debts of separate (special) school districts.....	1,274,723 17	1,246,389 71	1,220,624 65	1,567,953 43	1,314,581 57	1,469,237 03	1,158,098 14
Total Local Debts.....	\$17,590,547 97	\$20,033,123 32	\$21,886,007 36	\$25,957,588 21	\$36,059,978 56	\$39,328,569 10	\$41,205,840 62

* Increase of debts of cities in 1876 and 1877, principally in Cincinnati.

Net increase in Local Debts over last year \$1,877,271 52

This increase is described as follows :

Gain in cities.....		\$2,037,715 63
Gain in coun'ies.....		200,055 15
Gross increase.....		<u>\$2,237,770 78</u>
Decrease in townships.....	\$47,426 86	
Decrease in villages.....	61,933 51	
Decrease in school districts.....	311,138 89	
		<u>420,499 26</u>
Net increase, as above.....		\$1,877,271 52

VALUATION.

The value of all the taxable real estate and personal property in Ohio, according to the consolidated tax duplicate for 1878, is as follows :

Real estate in cities, towns, and villages	\$331,892,967 00
Real estate not in cities, towns, and villages	709,223,985 00
Chattel property.....	<u>461,460,552 00</u>
Total taxable values for 1878	\$1,552,577,504 00
Net decrease in the valuations, as compared with 1877.....	\$22,063,261 00

Again, it will be observed that this decrease is confined to personal property, there being a small increase in each class of real estate. It does not follow that there has not been a great depreciation in the market values of real estate, but it shows that the decennial valuation of real estate for taxation causes a uniformity in the basis of taxation of this class of property.

THE TAXES FOR 1879.

The taxes for the current fiscal year (1879,) levied upon the foregoing basis of \$1,552,577,504.00, are as follows :

FOR STATE PURPOSES.

For General Revenue Fund (4-10 of a mill)	\$619,972 43
For Asylum Fund (1 mill).....	1,549,880 10
For Sinking Fund (1-2 mill).....	774,939 51
For Common School Fund(1 mill).....	<u>1,551,583 97</u>
Total for State purposes (2 9-10 mills).....	\$4,496,376 01

FOR COUNTY PURPOSES.

For county expenses.....	\$2,141,177 76
For the poor.....	786,298 24
For bridges	1,446,812 22
For buildings.....	536,356 01
For roads.....	1,091,669 60
For payment of debts	<u>427,314 81</u>
Total for county purposes	\$6,429,628 64

FOR LOCAL PURPOSES.

For township expenses.....	\$855,550 26
For schools and school houses	5,546,656 52
For city, town, and village purposes.....	7,391,627 34
For other special purposes.....	1,604,606 53
Total township, city, school, and special taxes.....	<u>\$15,398,440 65</u>
Total county and local taxes levied in 1878.....	\$21,828,069 29
Total levies made in 1878 for all purposes	<u>\$26,324,445 30</u>
Add delinquencies and forfeitures of previous years.....	2,235,320 56
Total taxes for 1879, including delinquencies	<u>\$28,559,765 86</u>

COST OF COLLECTING TAXES.

The probable collection of taxes is estimated by the Auditor of State at two per centum less than the levy, and the expense and loss in collection at two per cent. of the gross amount.

Estimated cost of collecting taxes in 1879, as above, \$89,848.00.

UNITED STATES.

Internal revenue tax collected in Ohio by the United States, during the fiscal year ending June 30, 1878 :

From Ohio banks and bankers	\$193,810 60
" Fermented liquors	935,455 40
" Spirits.....	10,124,478 65
" Tobacco	3,474,082 98
" Penalties, etc	23,274 42
" Other sources.....	12,149 80
Total	<u>\$14,763,251 85</u>

TABLE EXHIBITING A COMPARATIVE SUMMARY OF THE GRAND DUPLICATES OF OHIO FOR SEVENTY-NINE YEARS, BEGINNING WITH THE YEAR 1800 AND ENDING WITH THE YEAR 1878.

Years.	1st quality of land.		2d quality of land.		3d quality of land.		Total number of acres.	Rate of taxation per 100 acres.			Total taxes.
	Acres.		Acres.		Acres.			1st quality.	2d quality.	3d quality.	
1800	\$0 85	\$0 60	\$0 25	\$19,240 67
1801	55	35	17	29,114 19
1802	60	40	20	22,923 09
1803	60	40	20	22,331 06
1804	101,709	.....	3,326,226	.....	3,641,694	7,069,629	70	50	26	22,331 04
1805	90	65	40	43,512 95
1806	90	65	40	45,260 48
1807	90	65	40	43,632 79
1808	1 00	75	50	67,501 60
1809	147,093	.....	5,080,131	.....	5,251,503	10,479,029	1 00	75	50	63,991 87
1810	3,971,825	.....	5,810,403	9,944,033	1 25	1 00	65	86,364 39
1811	4,177,950	.....	5,625,408	9,333,039	1 25	1 00	65	170,546 74
1812	6,456,113	.....	5,444,329	12,134,777	1 25	1 00	65	155,137 07
1813	5,585,367	.....	5,593,890	11,370,032	1 25	1 00	65	108,761 24
1814	4,858,750	.....	5,895,907	10,334,323	1 25	1 00	65	162,196 48
1815	4,919,968	.....	5,995,540	11,095,878	2 00	1 50	1 00	259,486 19
1816	4,856,997	.....	6,058,398	11,090,214	3 60	2 65	1 78	229,897 98
1817	4,368,846	.....	6,098,517	10,639,104	3 75	3 00	2 00	231,811 68
1818	5,027,390	.....	6,138,738	11,331,620	3 00	2 25	1 50	169,185 43
1819	5,174,726	.....	6,334,398	11,714,468	2 00	1 50	1 00	179,475 62
1820	5,251,270	.....	7,361,632	12,639,040	1 50	1 00	50	205,346 95
1821	7,304,633	.....	5,759,323	13,319,043	1 50	1 00	50	171,648 68
1822	7,734,974	.....	6,402,346	14,390,224	1 50	1 00	75	198,647 53
1823	6,870,921	.....	6,585,449	13,682,454	1 50	1 12 1/2	75	194,289 95
1824	6,859,439	.....	7,016,342	14,110,381	1 50	1 12 1/2	75	170,761 20
1825	6,822,230	.....	7,675,566	14,790,648	1 25	87 1/2	56	200,405 25
1826	5,672,277	.....	7,173,798	13,025,073	1 50	1 12 1/2	75	

COMPARATIVE SUMMARY—Continued.

Years.	Value of realty.	Value of personalty.	Total value of taxable property.	State tax.	Total taxes on duplicate.
1826	\$15,946,840	\$11,035,820	\$57,982,640	\$105,816	\$392,783
1827	47,206,386	12,375,336	59,581,722	185,530	472,094
1828	50,116,513	12,168,841	62,285,354	187,906	498,481
1829	49,511,733	16,788,170	66,299,903	174,412	441,191
1830	50,086,250	14,589,335	64,675,578	232,472	598,595
1831	50,627,110	15,793,666	66,420,776	240,991	615,651
1832	55,013,412	19,229,620	74,243,032	264,954	685,909
1833	58,280,851	19,738,675	78,019,526	247,079	730,010
1834	57,399,577	23,500,073	81,100,660	172,434	703,104
1835	75,760,797	21,188,408	96,949,205	147,854	805,050
1836	72,243,906	27,029,444	99,253,350	211,932	1,007,216
1837	75,782,176	25,890,566	101,672,742	337,264	1,205,362
1838	80,923,608	26,553,182	107,476,790	434,061	1,505,210
1839	83,080,406	28,143,791	111,224,197	553,475	1,770,161
1840	85,287,261	27,038,895	112,326,156	564,435	1,755,539
1841	100,851,837	27,501,820	128,353,657	642,153	1,890,405
1842	104,322,013	28,021,822	132,343,835	690,759	2,026,577
1843	105,496,382	28,167,412	133,663,794	934,899	2,361,442
1844	107,142,152	29,000,514	136,142,666	948,996	2,340,663
1845	108,185,744	35,974,725	144,160,469	1,006,001	2,409,171
1846	109,940,636	40,352,496	150,293,132	1,214,897	2,580,073
1847	308,798,730	84,964,430	410,763,160	1,131,398	2,847,673
1848	330,995,273	90,072,718	421,067,991	1,265,769	3,241,935
1849	335,849,311	95,040,074	430,889,385	1,296,547	3,631,878
1850	341,389,838	98,487,502	439,876,340	1,413,830	4,227,708
1851	346,341,243	115,807,387	462,148,630	1,687,392	4,957,013
1852	354,937,147	152,644,763	507,581,911	1,776,537	5,674,333
1853	365,490,901	229,905,947	595,396,848	3,026,324	7,825,865
1854	569,868,410	297,061,572	866,929,982	3,077,601	9,092,339
1855	577,858,539	285,015,815	862,874,354	3,754,807	8,954,512
1856	580,694,487	240,026,530	820,721,017	3,026,132	8,009,514
1857	585,620,682	264,734,897	849,414,579	2,609,395	8,673,298
1858	590,285,947	240,514,084	840,800,031	2,978,132	9,756,650
1859	594,114,004	251,795,947	845,909,951	2,997,918	10,083,608
1860	639,849,311	248,408,290	888,257,601	3,504,713	10,817,676
1861	643,881,552	248,906,532	892,788,084	4,056,379	11,656,814
1862	645,670,080	243,615,312	889,285,392	4,129,473	10,135,285
1863	649,500,022	286,871,222	936,371,244	4,722,608	11,859,574
1864	655,498,100	351,198,016	1,006,696,116	5,323,963	16,595,639
1865	506,567,979	469,047,876	1,069,505,855	5,663,367	20,870,828
1866	663,647,542	442,561,379	1,106,208,921	3,867,167	18,808,437
1867	673,993,757	464,761,022	1,138,754,779	3,981,099	20,253,615
1868	683,452,487	460,008,899	1,143,461,386	3,397,472	20,499,148
1869	697,418,203	459,762,222	1,157,180,425	4,045,476	22,232,877
1870	707,846,833	459,681,861	1,167,528,694	4,066,242	22,463,631
1871	1,025,619,044	476,510,937	1,502,129,971	4,350,728	22,955,388
1872	1,030,163,528	494,159,590	1,524,323,118	4,414,557	23,248,979
1873	1,041,763,931	525,510,708	1,567,274,639	5,477,859	26,131,353
1874	1,052,257,736	528,121,588	1,580,379,324	5,630,367	26,837,196
1875	1,062,915,044	535,660,818	1,598,575,862	4,948,995	27,932,971
1876	1,076,788,367	520,681,599	1,597,469,966	4,626,650	28,521,256
1877	1,084,455,378	490,190,387	1,574,645,765	4,560,379	27,514,650
1878	1,091,116,952	461,460,552	1,552,577,504	4,496,376	26,324,445

There were re-valuations of the real property of the State for the years 1826, 1835, 1841, 1847, 1854, 1861, and 1871.

NOTE.—Prior to 1826 real estate only was brought upon the duplicate for taxation for State purposes. Funds for county purposes were derived from a poll-tax, and a tax upon horses, mules, and cattle, to which was added, by Legislative appropriation, a percentage from one-fifth to one-half, varying with the several years, from the taxes levied upon real estate.

Under the act of February 3, 1825, which took effect March 1, 1826, all taxable property was placed upon the grand duplicate, viz., lands and town lots, including buildings, horses, cattle, pleasure carriages, and merchants' and brokers' capital, to which was added "money loaned at interest," and manufacturers' capital, under the act of March 14, 1831.

Under the act of March 2, 1846, a new system of taxation was inaugurated, which, with various slight modifications, is now in force.

TABLE SHOWING A COMPARATIVE SUMMARY OF THE GRAND DUPLICATES OF OHIO FOR SEVEN YEARS, BEGINNING WITH 1872 AND ENDING WITH 1878, GIVING THE VALUATIONS FOR EACH YEAR, AND THE AGGREGATE TAXES FOR EACH SPECIFIC OBJECT, WHETHER FOR STATE OR COUNTY, OR LOCAL PURPOSES.

	1872.	1873.	1874.	1875.	1876.	1877.	1878.
VALUATIONS.							
Number of acres of land.....	25,421,137	25,446,107	25,416,698	25,458,323	25,350,058	25,426,707	25,201,743
Value of lands	\$699,478,744	\$698,815,731	\$697,408,537	\$696,583,323	\$704,940,269	\$705,896,953	\$709,223,955
" real est'e in cities and towns	330,684,784	342,948,200	354,749,139	366,031,712	371,848,098	378,558,425	381,892,967
" chattel property	494,159,590	525,510,708	528,121,588	535,660,818	520,081,500	490,190,387	461,400,562
Total taxable valuation.....	\$1,524,323,118	\$1,567,374,639	\$1,580,379,324	\$1,598,575,862	\$1,597,469,866	\$1,574,645,765	\$1,552,577,504
STATE TAXES—RATE.							
For Sinking Fund.....	2.9 Mills.	3.5 Mills.	3.2 Mills.	3.1 Mills.	2.9 Mills.	2.9 Mills.	2.9 Mills.
For General Revenue Fund	\$1,217,350.44	\$1,251,695.34	\$1,262,170.08	\$1,276,725.71	\$797,401.14	\$785,977.64	\$774,939.51
For Asylum Fund	1,653,532.75	938,773.16	788,856.24	638,357.77	637,916.87	628,782.26	619,972.43
For State Common School Fund	1,523,354.06	1,621,082.45	1,419,940.59	1,436,312.59	1,594,802.08	1,571,956.45	1,549,880.10
Total State taxes.....	\$4,414,557.25	\$5,477,559.25	\$5,050,367.42	\$4,918,395.19	\$4,026,920.54	\$4,560,379.63	\$4,496,376.01
COUNTY TAXES.							
For county expenses.....	\$2,005,513.57	\$2,000,586.32	\$1,956,547.16	\$2,098,062.11	\$2,221,274.06	\$2,150,154.86	\$2,141,177.76
For poor purposes	623,150.29	743,732.04	706,269.60	746,423.43	837,954.68	827,429.75	766,298.24
For bridge purposes	1,419,367.26	1,405,309.74	1,389,371.82	1,613,849.32	1,596,435.06	1,554,471.97	1,446,812.22
For building purposes	714,863.13	606,947.80	646,340.15	669,303.54	677,097.80	518,031.98	536,356.01
For road purposes	998,022.58	1,086,592.33	1,061,469.86	1,169,001.25	1,231,955.30	1,130,217.27	1,091,669.60
For payment of debts	553,098.51	289,618.57	278,751.19	422,227.93	389,550.66	319,447.51	437,314.81
Total county taxes	\$6,344,015.34	\$6,123,776.80	\$6,038,749.78	\$6,659,467.58	\$6,954,567.50	\$6,499,753.40	\$6,429,629.64

TOWNSHIP, SCHOOL, SPECIAL, CITY, AND TOWN TAXES.							
For township expenses.....	\$681,359 59	\$750,054 49	\$801,338 90	\$820,279 34	\$858,543 96	\$868,717 65	\$855,550 93
For school and school-house purposes.....	5,353,615 05	5,190,222 60	6,305,533 77	6,362,533 53	5,913,240 30	5,796,502 47	5,546,656 52
For city and village purposes.....	5,558,129 05	6,447,502 61	7,236,420 27	7,475,904 15	8,179,554 64	7,915,092 45	7,391,627 34
For other special purposes.....	857,300 43	1,111,937 45	1,404,756 63	1,082,791 58	1,957,729 58	1,876,205 19	1,604,606 53
Total town's p, spec'l, and city taxes.....	\$12,490,407 15	\$14,529,717 15	\$15,748,079 57	\$16,344,508 60	\$16,940,068 78	\$16,454,517 76	\$15,398,440 65
Total county and local taxes.....	\$18,834,422 49	\$20,653,483 95	\$21,786,829 35	\$23,003,976 18	\$23,894,635 95	\$22,954,271 16	\$21,828,069 29
Total taxes for all purposes.....	\$23,248,979 74	\$26,131,353 23	\$26,837,196 77	\$27,952,971 37	\$28,521,256 52	\$27,514,650 79	\$26,324,445 30
Delinquencies and forfeitures.....	\$561,992 23	\$343,106 75	\$777,532 39	\$940,211 00	\$1,433,929 20	\$2,011,096 74	\$2,235,320 56
Total taxes, includ'g delinquencies.....	\$23,810,971 97	\$26,474,459 98	\$27,614,729 16	\$27,893,182 37	\$29,965,185 72	\$29,525,747 53	\$28,559,765 86

GRAND DUPLICATE OF OHIO FOR THE YEAR 1878.

Tabular statement exhibiting the number of acres of land, and the value thereof, in the property; the total of taxable property; the amount of tax levied by the General penses of the State Government, for Asylum Fund, and for the support of State

Counties.	Acres of land.	Value of lands.	Value of real estate in cities, towns, and villages.	Value of chattel property.	Total value.
Adams.....	318,274	\$3,787,098	\$396,587	\$1,621,191	\$5,804,876
Allen.....	257,639	4,959,946	1,602,579	3,898,565	10,461,090
Ashland.....	265,376	8,131,085	1,180,073	3,799,642	13,110,800
Ashtabula.....	439,386	9,408,888	1,443,734	5,517,718	16,370,340
Athens.....	305,564	4,478,002	956,702	2,955,281	8,389,985
Auglaize.....	247,897	4,240,730	1,330,010	2,052,820	7,623,560
Belmont.....	337,182	11,696,483	2,766,934	6,532,326	20,995,743
Brown.....	305,493	7,078,653	1,024,388	2,918,361	11,021,402
Butler.....	291,049	17,214,714	6,423,034	9,407,053	33,044,801
Carroll.....	247,418	6,220,129	355,889	2,413,820	8,989,938
Champaign.....	267,283	11,281,660	2,721,800	6,590,056	20,593,516
Clarke.....	250,381	11,434,370	6,021,010	9,614,474	27,130,454
Clermont.....	282,973	9,855,850	1,137,130	3,566,730	14,559,710
Clinton.....	257,434	8,764,616	1,247,306	4,143,503	14,155,429
Columbiana.....	335,429	11,189,946	4,101,880	7,594,973	22,886,799
Coshocton.....	353,905	8,473,100	1,190,900	3,562,870	13,226,920
Crawford.....	251,515	7,790,740	2,430,870	5,247,330	15,468,940
Cuyahoga.....	255,104	10,869,694	54,152,882	23,634,390	88,656,366
Darke.....	377,430	10,937,000	1,902,250	5,659,180	18,498,430
Defiance.....	257,492	3,241,464	905,026	1,806,569	5,953,059
Delaware.....	284,553	9,359,757	2,282,974	4,865,145	16,507,876
Erie.....	157,616	4,590,891	2,967,817	3,854,815	11,413,523
Fairfield.....	313,583	10,951,630	1,825,720	5,520,320	18,297,670
Fayette.....	254,884	9,801,770	746,395	3,549,796	13,497,961
Franklin.....	331,487	16,719,290	19,096,650	14,242,189	50,061,129
Fulton.....	256,657	3,310,580	287,040	1,736,765	5,334,385
Gallia.....	286,569	3,955,064	1,197,957	2,447,717	7,601,738
Genuga.....	251,728	5,699,930	209,260	2,114,762	8,023,952
Greene.....	258,632	13,639,630	2,881,780	6,950,088	22,472,098
Guernsey.....	327,935	6,781,647	970,565	2,944,964	10,677,176
Hamilton.....	225,750	22,514,920	136,261,540	52,798,471	211,574,931
Hancock.....	334,141	8,330,106	1,053,934	2,995,734	12,379,834
Hardin.....	300,660	5,134,230	1,365,680	2,741,930	9,241,840
Harrison.....	256,914	8,104,060	796,430	4,179,830	13,080,320
Henry.....	261,727	2,747,100	585,540	1,254,534	4,587,174
Highland.....	346,144	9,304,823	1,558,834	4,449,551	15,313,208
Hocking.....	265,823	3,284,546	462,206	1,965,159	5,711,911
Holmes.....	264,826	5,221,570	449,760	2,718,504	8,389,834
Huron.....	306,697	9,421,101	2,592,220	5,772,554	17,785,784
Jackson.....	255,902	2,478,538	634,722	1,647,829	4,761,089
Jefferson.....	257,589	9,962,760	3,544,710	5,588,340	19,095,810
Knox.....	324,322	10,158,970	1,495,667	4,900,187	16,554,824
Eake.....	145,519	4,650,060	1,922,286	3,519,751	10,092,697
Lawrence.....	280,433	3,605,133	1,801,400	3,024,759	8,431,292
Licking.....	429,613	15,809,048	3,403,285	7,351,617	26,563,960
Logan.....	283,181	7,956,290	1,261,490	4,449,040	13,666,820
Lorain.....	357,241	8,869,541	2,692,335	6,118,721	17,680,597
Lucas.....	207,393	5,132,580	11,499,370	7,307,840	23,939,790
Madison.....	230,813	9,005,180	1,138,970	4,240,290	14,384,440

GRAND DUPLICATE OF OHIO FOR THE YEAR 1878.

several counties; the value of real property in cities and towns; the value of chattel Assembly for the payment of the principal and interest of the State debt, for the ex-Common Schools; and the total amount of State taxes.

State tax for 1878.

For State debt or Sinking Fund, 5-10 of a mill.	General Re- venue Fund, 4-10 of a mill.	Asylum Fund, 1 mill.	State Common School Fund, 1 mill.	Total State tax, 2 and 9-10 mills.
\$2,902 43	\$2,321 95	\$5,804 88	\$5,804 87	\$16,834 13
5,230 48	4,184 41	10,461 09	10,461 09	30,337 07
6,555 40	5,244 32	13,110 80	13,110 80	38,021 32
8,185 17	6,548 18	16,370 33	16,370 33	47,474 01
3,698 26	2,958 59	7,396 54	7,396 54	21,449 93
3,811 75	3,049 43	7,623 57	7,623 57	22,108 32
10,497 86	8,398 29	20,995 74	20,995 74	60,887 63
5,510 71	4,408 55	11,021 40	11,021 40	31,962 06
15,670 51	12,536 35	31,340 90	33,044 79	92,592 55
4,494 92	3,595 92	8,989 84	8,989 84	26,070 52
10,296 75	8,237 39	20,593 52	20,593 52	59,721 18
13,565 23	10,552 18	27,130 45	27,130 45	78,678 31
7,279 85	5,823 88	14,559 71	14,559 74	42,223 15
7,077 73	5,662 17	14,155 40	14,155 40	41,050 70
14,443 39	9,154 72	22,886 80	22,886 80	66,371 71
6,613 39	5,290 77	13,226 92	13,226 92	38,358 00
7,734 52	6,187 58	15,468 94	15,468 94	44,859 98
44,327 57	35,462 06	88,655 16	88,655 16	257,099 95
9,249 21	7,399 41	18,498 42	18,498 42	53,645 46
2,976 52	2,381 22	5,953 06	5,953 06	17,967 86
8,253 94	6,603 15	16,507 88	16,507 88	47,872 65
5,706 76	4,565 38	11,413 62	11,413 62	33,099 38
9,148 94	7,319 04	18,297 67	18,297 67	53,063 42
6,748 98	5,399 18	13,497 96	13,497 96	39,144 08
25,330 48	20,264 45	50,661 12	50,661 13	146,917 18
2,667 20	2,133 75	5,334 38	5,334 38	15,469 71
3,800 86	3,060 70	7,601 70	7,601 70	22,064 96
4,011 96	3,209 58	8,023 96	8,023 96	23,269 46
11,236 03	8,988 82	22,472 07	22,472 07	65,168 99
5,338 59	4,270 85	10,677 18	10,677 18	30,963 80
105,787 46	84,629 97	211,574 93	211,574 93	613,567 29
6,189 91	4,951 93	12,379 83	12,379 83	35,901 50
4,620 92	3,696 73	9,241 84	9,241 84	26,801 33
6,540 16	5,232 13	13,080 32	13,080 32	37,932 93
2,293 57	1,834 91	4,587 16	4,587 18	13,302 82
7,656 65	6,125 32	15,313 28	15,313 28	44,408 53
2,855 98	2,281 78	5,711 97	5,711 97	16,564 70
4,194 91	3,355 91	8,390 33	8,390 33	24,331 48
8,892 79	7,114 33	17,785 78	17,785 78	51,578 68
2,380 54	1,904 43	4,761 09	4,761 08	13,807 14
9,547 92	7,635 31	19,095 81	19,095 81	55,377 85
8,277 34	6,621 90	16,547 79	16,554 79	48,008 82
5,046 34	4,037 07	10,092 70	10,092 70	29,268 81
4,215 54	3,372 40	8,431 20	8,431 20	24,450 34
13,281 97	10,625 48	26,563 94	26,563 95	77,035 34
6,833 41	5,466 72	13,666 48	13,666 82	39,633 77
8,840 29	7,072 24	17,680 60	17,680 59	51,273 72
11,969 89	9,575 91	23,939 79	23,939 79	69,425 38
7,192 23	5,753 77	14,384 44	14,384 44	41,714 88

GRAND DUPLICATE OF OHIO FOR THE YEAR 1878.

Counties.	Acres of land.	Value of lands.	Value of real estate in cities, towns, and villages.	Value of chattel property.
Mahoning	264,534	\$9,705,416	\$3,501,960	\$5,789,822
Marion	253,615	7,565,710	1,122,505	4,467,832
Medina	263,601	8,278,020	711,713	4,045,661
Meigs	263,600	4,056,396	2,323,250	2,431,309
Mercer	285,194	2,958,170	279,980	1,218,220
Miami	252,102	11,232,700	3,925,612	6,385,631
Monroe	288,350	3,799,692	325,231	1,496,175
Montgomery	287,098	17,592,770	12,973,460	14,012,860
Morgan	260,219	4,920,670	568,392	2,649,672
Morrow	253,980	8,005,032	706,222	3,702,907
Muskingum	419,281	12,521,430	5,052,520	8,059,420
Noble	253,976	4,512,246	176,922	1,552,725
Ottawa	163,110	2,599,012	643,544	2,311,014
Paulding	258,389	1,627,920	103,713	687,430
Perry	256,002	5,176,903	936,195	2,573,555
Pickaway	314,219	12,871,265	1,574,265	4,922,180
Pike	262,404	2,962,771	412,966	2,015,123
Portage	215,666	9,151,980	904,700	6,152,536
Preble	268,034	11,214,334	1,507,214	5,072,071
Putnam	305,106	3,581,538	550,607	1,683,426
Richland	308,095	10,479,160	4,097,780	7,329,160
Ross	421,294	11,656,073	2,927,541	7,095,925
Sandusky	205,661	7,092,260	2,011,810	3,921,275
Scioto	351,720	3,961,308	2,905,157	3,885,616
Seneca	345,159	10,763,846	2,581,205	5,260,573
Shelby	254,893	5,614,920	995,654	3,165,590
Stark	351,084	16,600,090	6,790,650	9,460,260
Summit	260,266	11,447,794	3,900,616	7,071,949
Tiamburg	399,229	11,197,189	2,225,510	6,327,784
Tuscarawas	356,740	10,082,454	2,060,894	4,749,575
Union	239,788	6,928,196	928,652	2,664,091
Van Wert	256,243	2,871,949	954,139	2,397,865
Vinton	257,907	2,286,393	283,297	1,352,988
Warren	252,264	12,394,241	1,932,641	7,083,434
Washington	393,411	6,462,578	2,412,079	3,873,775
Wayne	344,882	12,798,937	2,748,840	7,859,466
Williams	207,818	4,492,690	928,880	2,388,408
Wood	389,950	5,818,770	908,780	2,915,680
Wyandot	254,753	5,926,280	1,137,300	3,677,495
Totals	25,201,743	\$709,223,985	\$381,892,697	\$461,460,552

* Athens county college lands, valued at \$993,445, are claimed as exempt from all State taxes.

† Butler county college lands, valued at \$1,703,901, are claimed as exempt from taxation for State purposes, except for support of common schools.

TABULAR STATEMENT—Continued.

Total value.	State Tax for 1878.				
	State Debt or Sinking Fund, 5-10 of a mill.	General Rev- enue Fund, 4-10 of a mill.	Asylum Fund, 1 mill.	State Common School Fund, 1 mill.	Total State Tax, 2 and 9-10 mills.
\$18,997,198	\$9,498 61	\$7,598 89	\$18,997 20	\$18,997 20	\$55,091 90
13,156,047	6,578 00	5,262 38	13,156 02	13,156 02	38,152 42
13,034,794	6,517 38	5,213 92	13,034 80	13,034 80	37,800 90
8,810,955	4,405 49	3,524 36	8,810 96	8,810 95	25,551 76
4,456,370	2,228 18	1,782 55	4,456 37	4,456 37	12,923 47
21,543,943	10,771 97	8,617 58	21,543 92	21,543 94	62,477 43
5,621,098	2,810 52	2,248 40	5,621 13	5,621 13	16,301 18
44,579,090	22,289 54	17,831 64	44,597 09	44,579 09	129,279 36
8,138,734	4,069 37	3,255 49	8,138 73	8,138 73	23,602 32
12,414,161	6,207 08	4,965 67	12,414 16	12,414 16	36,001 07
25,633,370	12,816 69	10,253 35	25,633 37	25,633 37	74,336 78
6,241,893	3,120 96	2,496 72	6,241 89	6,241 89	18,101 46
5,553,570	2,776 79	2,221 43	5,553 57	5,553 57	16,105 36
2,419,063	1,209 53	967 61	2,419 05	2,419 05	7,015 24
8,686,953	4,343 50	3,474 74	8,686 96	8,686 96	25,192 16
19,367,710	9,683 87	7,747 09	19,367 71	19,367 71	56,166 38
5,390,860	2,695 45	2,156 35	5,390 83	5,390 83	15,633 46
16,209,216	8,104 61	6,483 69	16,209 21	16,209 21	47,006 72
17,793,619	8,896 80	7,117 45	17,793 61	17,793 61	51,601 47
5,815,571	2,907 74	2,326 20	5,815 56	5,815 56	16,865 06
21,906,100	10,953 05	8,762 44	21,906 10	21,906 10	63,527 69
21,679,539	10,839 77	8,671 81	21,679 54	21,679 54	62,870 66
13,025,345	6,512 68	5,210 14	13,025 31	13,025 31	37,773 44
10,752,081	5,376 05	4,300 81	10,752 09	10,752 09	31,181 04
18,605,924	9,302 95	7,442 34	18,605 92	18,605 95	53,957 16
9,776,164	4,888 11	3,910 46	9,776 16	9,776 16	28,350 89
32,851,000	16,425 50	13,140 40	32,851 00	32,851 00	95,267 90
22,420,359	11,210 19	8,968 17	22,420 34	22,420 34	65,019 04
19,751,483	9,875 69	7,900 55	19,751 49	19,751 49	57,279 22
16,892,923	8,446 46	6,757 17	16,892 92	16,892 92	48,989 47
10,520,939	5,260 43	4,208 37	10,520 86	10,520 86	30,510 52
6,223,953	3,112 02	2,489 61	6,224 01	6,224 02	18,049 66
3,922,678	1,961 35	1,569 09	3,922 68	3,922 65	11,375 77
21,410,316	10,705 16	8,564 11	21,410 32	21,410 32	62,089 91
12,748,732	6,374 37	5,099 49	12,748 73	12,748 73	36,971 32
23,406,363	11,703 61	9,362 90	23,407 18	23,307 18	67,880 87
7,769,978	3,884 97	3,108 97	7,769 96	7,769 93	22,533 83
9,642,630	4,821 32	3,857 05	9,642 63	9,642 63	27,963 63
10,741,075	5,370 54	4,296 43	10,741 07	10,741 07	31,149 11
\$1,552,577,504	\$774,939 51	\$619,972 43	\$1,549,880 10	\$1,551,583 97	\$4,496,376 01

LOCAL TAXES ON THE GRAND

Tabular Statement exhibiting the amount of Taxes assessed on the Grand Duplicate of road purposes; also the amount assessed by Towns, Township, and Sub district author-
City, Town, and Village purposes.

Counties.	Total amount of all other than State taxes.	Total amount of taxes for all purposes.	Delinquent taxes and forfeitures	County tax.	Poor tax.	Bridge tax.
Adams	\$83,720 85	\$100,554 98	\$8,316 60	\$17,414 41	\$4,063 41	\$5,707 31
Allen	193,144 34	229,451 41	19,761 94	18,829 96	5,230 52	20,922 15
Ashland	126,857 01	161,878 36	4,955 84	19,010 66	7,210 93	16,388 49
Ashtabula	184,871 57	232,345 58	4,224 95	21,281 34	13,096 19	49,111 06
Athens	127,570 20	149,020 13	3,180 65	25,169 92	16,779 97	12,585 00
Auglaize	111,922 76	134,031 08	5,419 25	26,682 55	.....	11,435 37
Belmont	194,365 13	255,252 76	19,413 51	25,194 86	16,796 58	10,497 86
Brown	146,792 84	178,754 90	32,046 12	27,553 53	8,265 99	27,553 23
Butler	325,237 82	417,830 37	40,989 60	36,349 24	16,522 44	16,522 44
Carroll	58,775 70	84,746 22	2,084 80	14,383 77	2,697 04	2,247 46
Champaign	177,139 40	236,869 58	8,156 16	18,534 18	4,118 71	12,356 12
Clarke	267,732 64	346,410 95	3,057 97	27,130 46	5,426 09	8,139 14
Clermont	155,148 13	157,371 28	14,635 36	18,927 62	8,735 83	11,647 77
Clinton	153,148 81	194,199 51	10,078 00	21,233 15	7,077 73	21,233 15
Columbiana	155,365 52	221,737 23	6,107 76	13,732 07	4,577 35	11,443 40
Coshocton	119,341 55	157,699 55	4,818 75	19,840 43	6,613 39	16,533 60
Crawford	177,796 49	222,756 47	4,352 76	23,203 35	15,468 94	15,468 94
Cuyahoga	2,342,982 67	2,600,082 62	179,750 69	93,087 91	.....	44,327 57
Darke	194,688 04	248,333 50	8,197 47	24,048 03	9,249 21	38,746 86
Defiance	132,040 84	149,304 70	10,490 98	16,072 27	2,976 54	8,929 56
Delaware	166,662 56	214,535 41	11,295 24	24,761 81	9,904 72	16,507 88
Erie	245,971 87	277,071 25	10,511 22	17,120 38	14,266 94	11,413 62
Fairfield	186,849 00	239,912 42	3,823 87	23,786 96	18,297 67	18,297 67
Fayette	166,185 51	205,339 59	12,595 20	20,246 94	16,872 45	13,497 96
Franklin	621,417 13	768,334 31	50,035 01	45,594 93	35,462 77	15,198 35
Fulton	91,545 51	107,015 22	4,302 51	13,335 98	7,405 03	10,636 01
Galia	97,110 81	119,215 77	3,300 66	19,004 35	4,561 05	11,402 61
Geauga	40,510 70	63,780 16	711 20	8,023 96	3,209 58	.....
Greene	198,333 06	263,592 05	7,812 41	29,213 70	15,730 43	22,472 07
Guernsey	118,012 01	148,975 81	7,997 12	19,219 31	6,406 26	10,677 17
Hamilton	4,813,990 50	5,427,657 79	194,856 33	211,674 93	34,830 78	89,707 77
Hancock	166,600 16	202,501 66	3,971 23	22,254 61	3,713 89	14,855 75
Hardin	164,039 62	190,840 95	32,472 96	23,104 60	9,241 84	9,241 84
Harrison	92,078 67	130,011 60	1,072 49	13,089 32	7,548 19	6,549 16
Henry	106,503 30	119,896 12	32,961 10	16,055 14	4,587 18	10,091 76
Highland	135,263 45	179,671 98	39,655 66	18,375 94	3,437 04	28,420 90
Hocking	63,512 07	80,076 77	2,533 63	14,279 77	3,998 28	8,567 57
Holmes	81,238 21	105,569 60	1,300 33	16,779 87	2,516 93	10,966 69
Huron	182,097 79	233,676 47	7,904 60	14,228 60	14,228 60	30,225 84
Jackson	67,879 37	81,676 51	3,431 16	16,663 81	9,522 17	2,350 54
Jefferson	161,292 06	216,669 91	15,083 83	24,824 55	9,547 92	5,728 73
Knox	143,063 64	191,072 46	6,291 33	21,521 24	8,277 34	16,554 79
Lake	80,585 99	109,894 80	1,347 02	12,615 87	5,046 35	7,569 53
Lawrence	145,405 30	169,856 64	23,495 99	15,176 41	5,068 87	10,117 63
Licking	264,933 77	341,969 11	9,746 68	23,220 34	13,282 07	23,907 52
Logan	147,797 19	187,430 96	10,305 18	27,333 64	2,733 37	27,333 64
Lorain	148,775 25	200,048 97	2,634 60	8,840 30	3,536 11	21,216 72
Lucas	949,448 79	1,018,874 17	961,945 68	47,879 58	8,378 93	29,924 74
Madison	148,626 89	190,341 77	4,635 34	21,576 72	14,384 44	14,384 44
Mahoning	208,466 12	263,558 02	11,204 32	24,696 37	18,997 18	20,896 90
Marion	113,223 33	151,375 75	5,128 17	10,524 79	1,315 67	13,156 02

DUPLICATE OF OHIO FOR THE YEAR 1878.

Ohio for 1878, by County authority, for County, Poor, Bridge, Building, Road, and Rail-
ity, for Township expenses, School and School-house, and other special purposes, and for

Building tax.	Road tax.	All debts that the county is responsible for.	Township tax.	Township and sub-district school, school house, and all taxes for school purposes.	Other special taxes	City, town, and village taxes.
.....	\$13,078 47	.....	\$4 609 24	\$27,944 33	\$5,077 57	\$2,825 86
\$5,230 52	54,350 08	.....	9,180 90	51,355 98	27,027 60	7,016 60
3,277 70	12,310 21	.....	10,571 17	42,405 21	2,545 49	13,133 18
8,185 12	2,053 57	\$8,840 17	6,450 36	52,506 87	5,230 19	18,116 70
12,585 00	14,979 41	.....	7,038 59	29,222 63	.....	9,209 68
.....	9,735 24	.....	8,798 50	36,006 73	5,437 03	13,827 34
20,995 74	14,166 00	.....	11,774 71	67,902 93	.....	27,036 45
.....	13,776 70	.....	10,309 65	35,026 12	13,256 65	10,750 97
3,304 46	19,152 00	16,522 43	16,967 72	94,549 27	8,731 55	96,616 27
2,217 46	4,494 92	1,962 06	5,800 23	10,002 04	11,732 77	3,147 95
8,237 37	17,904 92	.....	8,384 70	68,454 40	1,487 76	37,661 24
5,426 09	10,213 08	10,852 18	14,416 25	93,779 60	6,342 94	86,007 38
.....	19,104 00	.....	20,457 24	66,653 53	.....	9,622 12
.....	4,768 26	.....	8,083 79	49,356 03	28,809 40	12,587 30
.....	12,012 04	.....	13,593 33	68,469 03	3,768 87	27,769 43
.....	16,938 94	.....	12,162 51	38,235 69	.....	9,016 99
7,734 52	4,663 29	.....	13,809 45	61,827 16	11,920 57	33,800 27
106,386 12	8,568 01	17,731 02	25,513 41	361,407 92	594,532 30	1,091,428 41
.....	21,291 66	.....	17,729 89	65,906 78	243 87	17,311 75
8,929 56	38,961 41	.....	4,262 69	32,311 40	3,881 64	15,714 77
8,253 94	9,586 53	16,780 99	8,330 54	39,619 56	588 59	32,328 00
11,413 62	8,282 05	.....	12,805 57	62,502 22	8,255 55	97,911 92
9,148 94	9,148 94	.....	16,143 11	69,437 15	1,080 07	21,508 49
.....	6,748 98	20,246 94	8,971 51	57,446 18	6,228 05	15,926 50
10,132 20	5,127 50	25,330 48	13,327 13	182,525 67	25,330 51	263,387 59
14,936 05	9,363 57	.....	3 255 37	25,052 73	2,350 79	5,146 98
7,601 72	3,040 57	895 26	3,104 25	25,369 78	4,178 09	17,993 13
.....	970 17	.....	2,219 85	23,462 23	2,218 56	1,406 35
.....	15,548 79	.....	16,355 68	61,958 56	1,949 34	35,104 49
5,338 59	12,032 65	.....	7,854 58	49,282 40	133 65	7,067 40
12,694 49	.....	157,834 90	23,856 21	727,715 92	29,737 01	3,526,038 49
9,284 82	18,562 79	.....	7,967 00	46,883 88	23,583 40	13,894 02
.....	45,457 70	.....	13,905 83	41,202 27	1,732 00	20,153 54
2,616 06	15,106 11	.....	9,568 89	30,012 92	1,308 03	5,997 99
.....	9,164 75	6,880 73	6,111 01	26,994 38	18,567 58	8,050 77
.....	808 14	.....	6,602 59	53,672 26	5,124 20	21,622 38
1,142 36	543 86	.....	5,218 79	23,236 31	.....	6,524 83
838 95	8,739 68	.....	5,238 06	27,638 48	5,764 91	2,814 64
.....	24,838 56	.....	6,648 29	53,705 03	6,506 36	31,706 51
2,380 54	.....	.....	8,059 63	20,374 94	1,508 07	6,989 67
.....	10,323 93	.....	8,605 90	54,060 74	23,562 51	24,637 78
.....	14,022 33	8,277 34	8,660 56	43,437 30	2,377 63	19,935 01
2,018 55	5,489 34	.....	3,467 32	31,421 00	.....	12,958 03
1,686 25	20,235 07	5,058 87	4,262 03	42,124 09	16,246 41	25,439 67
26,563 94	22,673 22	3,077 51	16,178 28	71,708 82	14,314 72	54,007 35
.....	10,454 09	.....	7,415 01	46,484 64	10,136 59	15,906 21
7,072 23	9,315 73	.....	7,616 56	67,505 11	5,797 29	17,874 20
21,545 31	9,313 72	7,181 94	7,435 27	140,720 23	312,762 16	364,306 41
.....	8,982 49	13,043 23	8,372 03	46,279 55	2,695 78	18,908 21
.....	14,307 12	.....	13,951 62	54,892 28	4,004 01	56,720 64
.....	11,972 95	.....	9,469 36	42,379 21	9,617 34	14,788 09

LOCAL TAXES ON THE GRAND

Counties.	Total amount of all other than State taxes.	Total amount of taxes for all purposes.	Delinquent taxes and forfeitures.	County tax.	Poor tax.	Bridge tax.
Medina	\$80,245 51	\$118,046 42	\$513 73	\$15,641 76	\$3,910 46	\$6,517 38
Meigs	119,591 96	145,443 72	9,008 25	15,859 72	5,286 56	8,810 95
Mercer	90,594 93	103,518 40	5,181 67	15,597 29	3,787 91	13,369 11
Miami	269,014 69	331,492 12	11,964 40	21,543 94	10,771 97	30,161 52
Monroe	67,037 39	83,338 57	4,657 08	8,433 44	3,372 57	5,621 14
Montgomery	610,179 23	739,458 59	16,534 05	49,036 99	26,747 45	28,166 68
Morgan	91,780 92	115,383 24	290 81	14,649 72	11,394 23	8,138 74
Morrow	86,540 28	122,541 35	2,375 04	12,414 16	2,482 83	12,414 16
Muskingum	302,113 34	376,450 12	4,212 61	28,196 71	25,633 37	25,633 37
Noble	63,114 04	81,215 50	3,031 51	12,483 78	3,120 96	3,120 96
Ottawa	97,856 00	113,961 36	7,648 38	16,660 70	.....	16,660 69
Paulding	75,764 52	82,779 76	59,334 65	19,836 33	3,870 48	10,885 78
Perry	100,463 84	125,656 00	3,021 09	14,767 72	8,646 96	8,686 96
Pickaway	180,185 58	236,351 96	4,991 87	24,178 02	15,494 19	17,430 92
Pike	64,505 87	80,139 33	3,940 45	13,477 14	2,156 35	2,605 45
Portage	122,215 16	169,221 88	1,573 06	16,209 22	4,862 77	11,346 45
Preble	139,649 15	191,250 62	5,614 93	14,235 03	7,117 46	17,793 61
Putnam	122,114 27	138,979 33	14,183 72	18,028 25	3,522 05	14,539 05
Richland	201,669 38	265,197 07	5,772 43	21,906 10	10,953 05	.....
Ross	213,559 87	276,421 53	7,415 36	21,679 54	10,839 77	17,343 63
Sandusky	165,319 50	206,092 94	6,976 04	27,353 18	7,815 19	19,537 92
Scioto	210,416 94	241,597 98	28,653 03	16,128 13	8,601 63	11,827 28
Seneca	221,383 53	278,340 69	8,185 27	35,351 25	7,442 36	22,327 09
Sbelby	131,410 52	159,761 41	7,222 62	17,597 09	9,776 16	14,664 25
Stark	329,610 60	421,878 50	16,187 15	45,991 40	13,140 40	26,280 80
Summit	254,913 17	319,932 21	4,952 75	40,356 64	11,210 19	20,178 33
Trumbull	175,472 29	232,759 51	4,185 91	25,676 93	9,875 70	19,751 47
Tuscarawas	194,651 40	243,641 87	5,128 02	28,717 97	10,135 75	37,164 43
Union	189,713 56	220,220 08	29,317 26	18,937 85	4,208 37	15,781 31
Van Wert	115,590 05	133,639 71	26,071 27	15,560 05	3,734 42	4,979 23
Vinton	56,564 82	67,940 59	6,955 11	14,121 65	5,884 00	1,961 33
Warren	167,111 12	229,201 03	5,137 46	21,410 32	8,564 11	14,947 22
Washington	171,343 94	208,315 26	5,062 55	25,497 46	19,123 09	6,374 37
Wayne	209,218 69	277,099 56	4,097 84	30,429 34	14,044 29	25,747 89
Williams	87,646 20	110,180 03	1,671 12	15,539 94	.....	11,654 96
Wood	169,097 82	197,061 45	26,916 42	23,142 31	9,642 63	24,106 57
Wyandot	123,916 23	155,065 34	2,414 99	19,333 94	7,518 75	16,111 61
Totals ..	21,828,069 29	26,324,445 30	2,235,320 56	2,141,177 76	786,298 24	1446,812 22

DUPLICATE OF OHIO FOR THE YEAR 1878—Continued.

Building tax.	Road tax.	All debts that the county is responsible for.	Township tax.	Township and sub-district school, school-house, and all taxes for school purposes.	Other special taxes.	City, town, and village taxes.
	\$3,715 20	.....	\$4,863 11	\$35,209 16	\$6,278 89	\$4,109 56
\$3,524 38	17,200 88	.....	10,461 79	34,877 10	.....	23,870 58
8,912 74	8,225 82	.....	9,815 82	25,697 92	2,933 73	2,254 59
	28,447 67	.....	13,352 73	82,072 76	19,399 55	63,274 55
5,621 14	9,001 84	.....	5,737 58	27,588 88	.....	1,660 80
44,579 09	24,591 14	\$8,915 82	16,520 39	169,208 42	32,198 16	210,215 09
813 88	14,387 29	.....	2,647 10	30,940 41	5,626 71	3,182 84
	11,330 17	.....	5,075 51	32,155 98	2,845 60	7,821 87
43,576 73	.....	.....	9,957 57	71,570 56	7,076 68	90,518 35
3,120 96	8,441 94	.....	4,932 99	26,575 37	700 22	616 86
5,553 57	7,112 14	2,776 81	2,258 60	32,363 83	8,294 70	6,174 96
1,209 52	7,257 20	.....	4,476 52	17,650 69	9,496 42	1,081 58
	8,686 93	.....	7,370 78	37,520 80	4,081 52	10,662 12
.....	18,502 89	.....	12,548 99	61,055 68	4,040 13	25,934 76
.....	539 10	.....	5,990 36	28,454 23	6,121 65	5,071 59
.....	10,174 83	.....	6,208 18	51,514 89	3,647 89	18,250 93
.....	8,896 81	.....	4,605 29	50,921 30	24,822 85	11,256 80
2,907 74	16,494 44	.....	4,758 42	30,475 10	26,083 60	5,299 62
10,953 05	12,438 83	.....	10,372 88	71,420 94	2,976 53	60,648 00
10,839 77	.....	28,183 40	11,384 08	69,253 76	12,071 58	31,955 34
5,210 14	10,001 56	5,210 14	10,336 69	51,020 46	5,124 68	26,709 54
.....	35,481 83	10,752 10	5,722 90	56,312 28	8,892 10	56,698 69
5,581 78	12,699 35	7,442 34	9,145 77	67,646 94	11,023 42	45,723 23
.....	24,440 41	.....	15,472 53	32,208 12	2,198 97	15,062 99
.....	15,481 80	13,140 40	17,777 29	101,214 15	6,581 22	90,003 14
.....	14,986 30	.....	6,750 57	89,779 63	2,766 88	68,884 63
.....	2,874 50	5,925 41	9,813 10	65,522 69	7,558 45	28,474 04
.....	12,943 58	.....	17,092 58	68,426 11	.....	20,170 98
7,364 78	10,520 86	.....	6,691 57	44,367 51	70,859 50	10,981 81
18,672 04	13,475 69	.....	6,339 35	33,878 53	5,450 35	13,500 39
1,961 32	8,544 32	.....	3,607 53	17,221 17	1,290 11	13,973 39
.....	24,052 13	.....	13,803 36	54,848 93	6,423 09	23,021 96
.....	9,940 07	12,748 73	9,165 11	52,715 48	.....	35,779 63
5,851 86	2,048 35	11,703 61	12,655 09	65,994 19	10,484 51	30,259 56
.....	.....	.....	18,615 71	31,474 33	1,273 38	9,087 89
2,892 80	16,797 26	.....	17,736 64	49,845 73	6,243 70	18,690 18
.....	9,248 88	.....	10,582 59	45,963 58	2,058 36	13,098 52
536,356 01	1,091,669 60	427,314 81	855,550 60	5,546,656 52	1,604,606 53	7,391,627 34

**MERCHANTS' AND MANUFACTURERS' STOCK, AND MONTHLY AVERAGE VALUE OF MONEYS
AND CREDITS CONVERTED INTO NON-TAXABLE BONDS.**

Counties.	Merchants' stock.	Manufacturers' stock.	Monthly average value of moneys, credits, or other personal property, con- verted into non-taxable bonds.
Adams.....	\$119,420	\$29,352	\$13,450
Allen.....	227,967	79,812	12,887
Ashland.....	188,941	51,327	960
Ashtabula.....	288,968	87,639	3,683
Athens.....	192,351	41,972	13,900
Auglaize.....	179,561	55,206	2,427
Belmont.....	417,960	184,871	11,570
Brown.....	232,464	55,405	5,550
Butler.....	443,316	248,201	11,683
Carroll.....	77,434	14,806	5,033
Champaign.....	358,719	146,395	22,165
Clarke.....	519,650	382,982	41,316
Clermont.....	224,182	61,601	7,455
Clinton.....	272,074	57,176	3,520
Columbiana.....	403,868	189,302	20,815
Coshocton.....	177,361	57,029	4,625
Crawford.....	257,725	93,186	10,600
Cuyahoga.....	2,859,930	959,060	121,198
Darke.....	296,185	55,775	6,025
Defiance.....	117,005	65,039	-----
Delaware.....	327,741	64,282	31,189
Erie.....	322,911	161,087	16,782
Fairfield.....	301,094	61,124	1,645
Fayette.....	169,069	46,095	15
Franklin.....	1,667,381	638,179	89,013
Fulton.....	65,946	12,300	3,345
Gallia.....	253,550	72,031	9,820
Geauga.....	78,422	26,614	9,200
Greene.....	450,750	119,035	25,837
Guernsey.....	190,247	23,745	975
Hamilton.....	13,812,604	6,085,204	523,804
Hancock.....	209,011	45,952	11,085
Hardin.....	165,482	45,570	8,475
Harrison.....	165,764	23,196	3,817
Henry.....	61,128	29,485	375
Highland.....	305,010	57,627	145,352
Hocking.....	80,640	45,304	16,770
Holmes.....	84,866	18,797	2,460
Huron.....	280,026	78,323	10,500
Jackson.....	104,578	106,329	9,226
Jefferson.....	353,420	70,392	23,650
Knox.....	280,770	87,954	-----
Lake.....	159,011	44,125	204
Lawrence.....	206,605	265,102	8,849
Licking.....	511,043	92,931	9,906
Logan.....	306,963	66,634	244
Lorain.....	252,549	58,642	4,672
Lucas.....	978,570	220,678	19,187
Madison.....	211,204	30,530	5,435
Mahoning.....	290,998	115,115	98,860
Marion.....	223,259	60,391	24,554

MERCHANTS' AND MANUFACTURERS' STOCK, ETC.—Continued.

Counties.	Merchants' stock.	Manufacturers' stock.	Monthly average value of moneys, credits, or other personal property, converted into non-taxable bonds.
Medina	\$191,916	\$47,760	\$4,922
Meigs	276,394	87,275	6,113
Mercer	82,900	37,483	4,930
Miami	395,492	161,229	11,237
Monroe	90,000	47,712	750
Montgomery	1,375,164	728,178	142,505
Morgan	174,143	38,824	235
Morrow	164,707	31,005	4,160
Muskingum	601,278	275,109	37,325
Noble	81,638	17,888	2,540
Ottawa	79,855	61,734	9,400
Paulding	26,552	57,556	3,982
Perry	151,571	49,098	4,768
Pickaway	315,021	96,658	29,467
Pike	117,773	65,786	18,479
Portage	253,562	65,160	20,025
Preble	252,620	70,429	12,968
Putnam	107,637	18,125	7,195
Richland	558,388	151,793	16,102
Ross	611,439	176,819	11,823
Sandusky	216,733	76,644	16,185
Scioto	516,775	150,749	52,643
Seneca	351,278	128,196	4,070
Shelby	194,325	41,017	16,515
Stark	632,740	411,924	26,167
Summit	581,421	400,431	26,072
Trumbull	317,141	148,214	33,340
Tuscarawas	291,041	58,669	6,703
Union	191,923	39,533	11,800
Van Wert	110,262	42,250	1,885
Vinton	81,867	68,498	1,727
Warren	342,343	94,040	37,869
Washington	349,253	99,209	22,072
Wayne	441,197	106,019	2,200
Williams	138,119	25,912	450
Wood	138,008	52,406	46,568
Wyandot	194,751	38,180	22,010
Totals	\$41,923,120	\$16,057,481	\$4,110,849

MONEYS, CREDITS, BONDS, AND STOCKS.

Counties.	Value of money.	Value of credits, book accounts, etc.	Bonds or stocks of any State, or of any company or corporation not required to list its property for taxation in Ohio.
Adams	\$215,638	444,653	\$19,892
Allen	210,722	544,385	2,200
Ashland	243,409	1,222,727	3,400
Ashtabula	183,377	892,356	13,059
Athens	143,176	665,061	37,654
Auglaize	233,803	302,349	3,110
Belmont	402,872	1,953,221	63,398
Brown	186,881	743,948	25,380
Butler	860,911	2,797,790	76,940
Carroll	331,424	740,449	24,500
Champaign	336,803	1,849,393	67,130
Clarke	845,540	2,527,283	179,669
Clermont	273,857	891,091	26,385
Clinton	203,672	1,173,650	8,805
Columbiana	398,007	1,610,077	13,247
Coshocton	389,410	989,401	33,890
Crawford	251,375	1,254,192	18,593
Cuyahoga	1,433,535	2,508,090	726,510
Darke	209,781	1,354,229	7,711
Defiance	51,716	220,393	-----
Delaware	262,042	1,204,566	17,365
Erie	145,588	474,489	16,194
Fairfield	367,269	1,707,252	7,211
Fayette	225,237	884,965	5,943
Frauklin	1,056,113	2,593,247	452,609
Fulton	36,306	173,078	-----
Gallia	255,874	675,144	12,535
Geauga	147,063	696,594	4,760
Greene	477,858	2,268,218	73,906
Guernsey	183,227	762,239	12,672
Hamilton	2,818,234	5,804,211	1,588,530
Hancock	124,887	985,181	18,150
Hardin	159,358	254,753	9,585
Harrison	271,184	1,563,427	7,470
Henry	33,670	91,300	650
Highland	332,917	1,391,632	55,470
Hocking	115,056	397,599	7,230
Holmes	249,314	828,223	3,135
Huron	169,795	1,531,011	34,300
Jackson	189,451	266,726	771
Jefferson	404,329	1,102,779	86,365
Knox	230,496	1,444,018	-----
Lake	248,746	778,131	35,229
Lawrence	373,076	518,368	94,405
Licking	266,334	2,2-3,889	21,927
Logan	274,889	1,209,839	7,880
Lorain	137,368	1,367,068	9,850
Lucas	259,360	354,841	34,550

MONEYS, CREDITS, BONDS, AND STOCKS—Continued.

Counties.	Value of moneys.	Value of credits, book accounts, etc.	Bonds or stocks of any State, or of any company or corporation not required to list its property for taxation in Ohio.
Madison	\$228,557	\$1,207,634	\$18,322
Mahoning	494,692	1,575,567	59,790
Marion	281,823	947,517	9,285
Medina	122,524	1,503,163	8,900
Meigs	164,821	617,798	27,048
Mercer	149,356	226,065	.....
Miami	352,594	1,774,989	86,405
Monroe	273,432	341,587	2,486
Montgomery	1,567,520	3,651,711	314,451
Morgan	102,004	1,032,623	3,637
Morrow	221,163	1,069,065	4,100
Muskingum	556,756	2,504,298	105,248
Noble	146,107	396,764	1,300
Ottawa	132,352	78,369	2,000
Paulding	18,933	31,474	11,792
Perry	110,554	784,128	4,589
Pickaway	373,863	1,465,176	18,650
Pike	230,269	395,993	15,987
Portage	319,278	1,742,348	32,185
Preble	219,665	1,717,683	19,786
Putnam	109,955	356,865	250
Richland	328,669	1,839,187	59,090
Ross	728,473	1,865,344	24,563
Sandusky	219,729	858,063	.....
Scioto	427,679	405,387	28,561
Seneca	395,278	1,445,909	17,150
Shelby	246,287	464,697	28,525
Stark	643,010	2,860,389	53,794
Summit	343,217	2,219,688	37,995
Trumbull	334,703	1,392,054	101,170
Tuscarawas	114,860	1,411,576	19,140
Union	145,875	709,042	22,977
Van Wert	131,297	217,033	4,050
Vinton	96,273	257,914	.....
Warren	398,193	2,555,229	177,254
Washington	211,830	1,148,321	51,143
Wayne	148,458	2,911,680	36,004
Williams	86,534	398,155	.....
Wood	104,165	224,529	5,250
Wyandot	175,174	632,820	10,250
Totals	\$28,676,877	\$105,535,365	\$5,413,477

Table showing the amount of Interest on the several funds constituting the Irreducible State Debt, for the year ending December 31, 1877, due and payable to counties after January 1, 1878, and paid during the fiscal year ending November 15, 1878.

Counties.	Section 16 School Fund.	Section 29 Ministerial Fund.	Virginia Military School Fund.	United States Military School Fund.	Western Reserve School Fund.	Total.
Adams			\$830 83			\$830 83
Allen	\$2,377 04					2,377 04
Ashland	1,537 00				\$59 87	1,596 87
Ashtabula					1,020 08	1,020 08
Athens	715 22	\$431 46				1,146 68
Auglaize	4,401 88		5 65			4,407 53
Belmont	6,332 75					6,332 73
Brown			1,141 00			1,141 00
Butler	6,861 08	1,323 68				8,184 76
Carroll	2,261 73					2,261 73
Champaign	1,077 37		254 09			1,331 46
Clarke	1,366 25		89 48			1,455 73
Clermont			1,218 95			1,218 95
Clinton			821 34			821 34
Columbiana	4,533 78					4,533 78
Coshocton				\$825 03		825 03
Crawford	1,672 52					1,672 52
Cuyahoga					5,473 27	5,473 27
Darke	5,135 92					5,135 92
Defiance	1,880 19					1,880 19
Delaware			99 68	694 81		794 49
Erie					1,180 85	1,180 85
Fairfield	3,974 87					3,974 87
Fayette			650 83			650 83
Franklin	449 18		501 87	432 16		1,283 21
Fulton	1,769 29					1,769 29
Gallia	1,117 88	370 48				1,488 36
Geauga					354 94	354 94
Greene	1,281 49		656 39			1,937 88
Guernsey	372 05			654 12		1,026 17
Hamilton	11,497 67	2,144 32	149 66			13,791 65
Hancock	2,058 09					2,058 09
Hardin	1,947 81		256 50			2,204 31
Harrison	4,268 03					4,268 03
Henry	3,252 72					3,252 75
Highland			1,032 37			1,032 37
Hocking	1,318 91	84 91				1,403 82
Holmes	917 89			472 56		1,390 45
Huron					1,005 62	1,005 62
Jackson	944 42					944 42
Jefferson	8,401 96					8,401 96
Knox	361 11			743 93		1,105 04
Lake					480 69	480 69
Lawrence	1,037 71	45 68				1,083 39
Licking	193 59			1,145 49		1,339 08
Logan	1,300 22		448 24			1,748 46
Lorain					1,045 21	1,045 21
Lucas	2,503 69					2,503 69
Madison			631 43			631 43
Mahoning	2,430 66				930 13	3,360 79
Marion	783 68		93 83	50 41		927 92
Medina					617 89	617 89

INTEREST OF IRREDUCIBLE STATE DEBT—Continued.

Counties.	Section 16 School Fund.	Section 29 Ministerial Fund.	Virginia Military School Fund.	United States Military School Fund.	Western Reserve School Fund.	Total.
Meigs	\$772 96	\$405 09				\$1,178 05
Mercer	4,073 18					4,073 18
Miami	3,559 74					3,559 74
Monroe	2,599 05					2,599 05
Montgomery ..	8,166 44					8,166 44
Morgan	2,196 98	32 22				2,229 20
Morrow	1,812 76			\$320 29		2,033 05
Muskingum	2,915 73			802 76		3,718 51
Noble	986 84			5 05		991 89
Ottawa	1,949 68				\$89 46	2,049 14
Paulding	1,466 26					1,466 26
Perry	1,573 80					1,573 80
Pickaway	2,746 02		\$133 03			3,179 05
Pike	209 44		406 12			615 56
Portage					747 33	747 33
Preble	4,516 61					4,516 61
Putnam	2,804 07					2,804 07
Richland	2,333 73					2,333 73
Ross	1,078 09		999 00			2,077 09
Sandusky	1,981 39					1,981 39
Scioto	1,519 06		277 37			1,796 43
Seneca	3,906 56					3,906 56
Shelby	3,980 15					3,980 15
Stark	4,573 06					4,573 06
Summit	588 70				1,100 13	1,688 83
Trumbull					1,330 28	1,330 28
Tuscarawas ..	306 38			1,169 72		1,476 10
Union			709 55			709 55
Van Wert	2,499 35					2,499 35
Vinton	1,145 64	265 45				1,411 09
Warren	3,205 03	1,131 55	343 00			4,679 58
Washington ..	2,870 12	585 86				3,455 98
Wayne	4,957 68					4,957 68
Williams	2,535 44					2,535 44
Wood	4,334 28					4,334 28
Wyandot	4,017 65					4,017 65
Ohio University Fund						
O. A. and M. C. Fund (Ohio State University)						
Totals	\$180,517 55	\$6 820 70	\$12,050 31	\$7,216 33	\$15,445 75	\$249,539 09

Table showing the amount of Interest on the several funds constituting the Irreducible State Debt, for the year ending December 31, 1878, upon such principal sums as have accrued by payment into the State Treasury, or otherwise, up to November 15, 1878, said interest being due and payable to County Treasurers after January 1, 1879, except the interest on the Ohio State University Fund, which is an estimated sum, payable through the calendar year 1879, as it accrues.

Counties.	Section 16 School Fund.	Section 29 Ministerial Fund.	Virginia Military School Fund.	United States Military School Fund.	Western Reserve School Fund.	Total.
Adams			\$809 06			\$809 06
Allen	\$2,391 53					2,391 53
Ashland	1,537 00				\$58 68	1,595 68
Ashtabula					998 49	998 49
Athens	724 18	\$431 46				1,155 64
Auglaize	4,401 88		5 28			4,407 16
Belmont	6,432 77					6,432 77
Brown			1,116 04			1,116 04
Butler	7,102 22	1,323 68				8,425 90
Carroll	2,261 73					2,261 73
Champaign	1,077 37		248 94			1,326 31
Clarke	1,376 54		95 22			1,471 76
Clermont			1,167 47			1,167 47
Clinton			810 24			810 24
Columbiana	4,533 78					4,533 78
Coshocton				\$833 06		833 06
Crawford	1,672 52					1,672 52
Cuyahoga					5,451 17	5,451 17
Darke	5,141 53					5,141 53
Defiance	1,892 28					1,892 28
Delaware			90 90	407 16		798 06
Erie					1,217 59	1,217 59
Fairfield	3,974 87					3,974 87
Fayette			620 07			620 07
Franklin	449 18		485 36	417 53		1,352 07
Fulton	1,782 77					1,782 77
Gallia	1,143 62	370 48				1,514 10
Geauga					354 87	354 87
Greene	1,281 49		644 66			1,926 15
Guernsey	372 05			646 29		1,018 34
Hamilton	11,531 15	2,162 58	147 63			13,841 36
Hancock	2,058 09					2,058 09
Hardin	1,960 72		255 33			2,216 05
Harrison	4,391 55					4,391 55
Henry	3,258 31					3,258 31
Highland			1,002 08			1,002 08
Hocking	1,333 71	89 52				1,423 23
Holmes	926 04			476 72		1,402 76
Huron					968 63	968 63
Jackson	952 61					952 61
Jefferson	8,401 96					8,401 96
Knox	361 11			751 16		1,112 27
Lake					493 97	493 97
Lawrence	1,119 38	45 68				1,165 06
Licking	193 59			1,126 65		1,320 24
Logan	1,341 76		422 55			1,764 31
Lorain					1,031 44	1,031 44

TABLE SHOWING AMOUNT OF INTEREST, ETC.—Continued.

Counties.	Section 16 School Fund.	Section 29 Ministerial Fund.	Virginia Military School Fund.	United States Military School Fund.	Western Reserve School Fund.	Total.
Lucas	\$2,509 03					\$2,509 03
Madison			\$620 95			620 95
Mahoning	2,430 66				\$937 74	3,368 40
Marion	783 68		89 23	\$55 65		928 56
Medina					619 13	619 13
Meigs	772 96	\$407 31				1,180 27
Mercer	4,110 22					4,110 22
Miami	3,560 03					3,560 03
Monroe	2,599 05					2,599 05
Montgomery	8,500 35					8,500 35
Morgan	2,252 42	64 36				2,316 78
Morrow	1,844 51			218 13		2,062 64
Muskingum	3,027 50			841 86		3,869 36
Noble	998 04			4 84		1,002 88
Ottawa	1,955 54				94 17	2,049 71
Paulding	1,481 54					1,481 54
Perry	1,575 20					1,575 20
Pickaway	2,746 02		445 38			3,191 40
Pike	212 66		402 86			615 52
Portage					751 31	751 31
Preble	4,516 61					4,516 61
Putnam	2,813 64					2,813 64
Richland	2,333 73					2,333 73
Ross	1,078 09		991 50			2,069 59
Sandusky	1,981 39					1,981 39
Scioto	1,530 37		283 04			1,813 41
Seneca	4,007 04					4,007 04
Shelby	4,021 60					4,021 60
Stark	4,573 06					4,573 06
Summit	588 70				1,115 52	1,704 22
Trumbull					1,353 04	1,353 04
Tuscarawas	306 35			1,137 28		1,443 66
Union			692 00			692 00
Van Wert	2,500 49					2,500 49
Vinton	1,162 55	271 94				1,434 49
Warren	3,205 03	1,131 55	325 75			4,662 23
Washington	2,876 59	585 86				3,462 45
Wayne	4,957 68					4,957 68
Williams	2,542 10					2,542 10
Wood	4,352 65					4,352 65
Wyandot	4,044 89					4,044 89
Ohio Univ. Fund.						486 12
O. S. Univ. Fund.						46,617 81
Totals	\$182,131 29	\$6,884 42	\$11,771 54	\$7,216 33	\$15,445 75	\$270,553 26

Table showing the enumeration of scholars between the ages of six and twenty-one years, distribution of Interest to the several Counties in the Virginia Military, United States Military, and Connecticut Western Reserve School Districts, accruing in the year 1878, and payable after January 1, 1879.

Counties.	Virginia Military District.		United States Military District.		Connecticut Western Reserve District.	
	Number of scholars.	Interest to be distributed.	Number of scholars.	Interest to be distributed.	Number of scholars.	Interest to be distributed.
Adams	8,258	\$809 06	.....	.....	.....	.....
Ashland .....	.....	.....	.....	.....	610	\$58 68
Ashtabula .....	.....	.....	.....	.....	10,369	998 49
Anglaize	54	5 28	.....	.....	.....	.....
Brown	11,391	1,116 04	.....	.....	.....	.....
Champaign	2,541	248 94	.....	.....	.....	.....
Clarke	972	95 22	.....	.....	.....	.....
Clermont	11,916	1,167 47	.....	.....	.....	.....
Clinton	8,270	810 24	.....	.....	.....	.....
Coshocton .....	.....	.....	8,936	\$833 06	.....	.....
Cuyaboga .....	.....	.....	.....	.....	55,655	5,451 17
Delaware	928	90 90	7,586	707 16	.....	.....
Erie .....	.....	.....	.....	.....	12,657	1,217 59
Fayette	6,329	620 07	.....	.....	.....	.....
Franklin	4,954	485 36	4,479	417 53	.....	.....
Geauga .....	.....	.....	.....	.....	3,689	354 87
Greene	6,580	644 66	.....	.....	.....	.....
Guernsey .....	.....	.....	6,933	646 29	.....	.....
Hamilton	1,507	147 63	.....	.....	.....	.....
Hardin	2,606	255 33	.....	.....	.....	.....
Highland	10,228	1,002 98	.....	.....	.....	.....
Holmes .....	.....	.....	5,114	476 72	.....	.....
Huron .....	.....	.....	.....	.....	10,069	968 63
Knox .....	.....	.....	8,058	751 16	.....	.....
Lake .....	.....	.....	.....	.....	5,135	493 97
Licking .....	.....	.....	12,086	1,126 65	.....	.....
Logan	4,331	422 55	.....	.....	.....	.....
Lorain .....	.....	.....	.....	.....	10,722	1,031 44
Madison	6,338	620 95	.....	.....	.....	.....
Mahoning .....	.....	.....	.....	.....	9,748	937 74
Marion	911	89 23	597	55 65	.....	.....
Medina .....	.....	.....	.....	.....	6,436	619 13
Morrow .....	.....	.....	2,340	218 13	.....	.....
Muskingum .....	.....	.....	9,031	841 86	.....	.....
Noble .....	.....	.....	52	4 84	.....	.....
Ottawa .....	.....	.....	.....	.....	979	94 17
Pickaway	4,546	445 38	.....	.....	.....	.....
Pike	4,112	402 86	.....	.....	.....	.....
Portage .....	.....	.....	.....	.....	7,810	751 31
Ross	10,120	991 50	.....	.....	.....	.....
Scioto	2,889	283 04	.....	.....	.....	.....
Summit .....	.....	.....	.....	.....	11,596	1,115 52
Trumbull .....	.....	.....	.....	.....	14,065	1,353 04
Tuscarawas .....	.....	.....	12,200	1,137 28	.....	.....
Union	7,063	692 00	.....	.....	.....	.....
Warren	3,325	325 75	.....	.....	.....	.....
Totals	120,151	\$11,771 54	77,412	\$7,216 33	160,550	\$15,445 75

The amount of principal upon which the preceding table of interest is computed, is as follows, to-wit: Virginia Military Fund, \$122,001.89; United States Military Fund, \$190,272.12; Connecticut Western Reserve Fund, \$257,429.21; Total, \$559,703.22.

Tabular statement of the valuations, rates of taxation, and tax levies for the several cities, and eleven of the other principal towns of the State of Ohio, for the year 1878, together with the rates, aggregate valuations, and total levies for the previous year, to which is also added the reported indebtedness of the same.

Cities and towns.	Counties.	Valuation and taxation for 1878.					Valuation and taxation for 1877.			
		Total valuation of property in 1878.	Total rate of taxation, including 2.9.10 mills for State purposes.	Amount of State taxes.	Amount of local taxes.	Total taxes for all purposes.	Indebtedness September 1, 1878, including debts of separate school districts.	Total valuation of property in 1877.	Total rate of taxation, including 2.9.10 mills for State purposes.	Total taxes for all purposes.
			Mills.							
Akron city	Summit	6,865,337	19.5	\$19,909.46	\$112,514.37	\$132,423.83	\$57,762.00	\$6,775.747	20.7	\$140,257.96
Bellefontaine	Logan	1,561,430	23.5	4,528.14	31,384.75	35,912.89	58,081.35	1,587.320	27.8	44,127.49
Canton city	Stark	5,059,270	21.7	14,671.88	95,114.27	109,786.15	216,373.87	4,931.330	23.5	115,886.25
Chillicothe city	Ross	4,741,305	19.	13,749.77	76,335.03	90,084.80	5,856.83	4,796.234	22.	103,537.16
Cincinnati city	Hamilton	172,574,068	28.54	501,334.79	4,432,491.11	4,933,825.90	22,643,048.75	179,430.142	29.1	5,221,417.13
Circleville city	Pickaway	3,073,475	20.	8,913.09	52,356.41	61,469.50	3,500.00	3,170.691	20.	63,413.82
Cleveland city	Cuyahoga	70,139,639	25.5	203,404.29	1,585,156.50	1,788,560.79	3,559,338.37	71,296.122	28.6	2,039,069.08
Columbus city	Franklin	27,139,293	20.	78,577.94	465,107.92	543,985.86	1,459,849.88	27,133.175	21.	569,796.68
Dayton city	Montgomery	18,973,020	22.1	55,021.75	364,281.90	419,303.74	1,127,837.18	19,624.250	23.3	457,245.02
Delaware city	Delaware	3,504,712	18.75	10,163.67	55,549.69	65,713.36	16,096.66	3,547.704	19.8	70,241.54
East Cleveland	Cuyahoga	1,496,940	8.50	4,340.74	7,383.25	11,723.99	.....	1,409.505	8.75	12,233.16
Elyria	Lorain	1,910,439	16.	5,540.27	25,026.75	30,567.02	.....	2,016.135	17.	24,274.29
Freemont city	Sandusky	1,928,974	22.	5,594.02	36,843.40	42,437.42	42,000.00	2,018.235	23.1	46,869.76
Gallipolis city	Gallia	1,996,103	22.2	5,788.69	38,524.79	44,313.48	138,276.29	2,018.235	23.2	46,869.76
Hamilton city	Butler	6,178,684	22.1	17,918.19	118,630.72	136,548.91	108,042.54	6,188.214	21.5-20	131,499.54
Ironton city	Lawrence	2,788,253	24.2	8,085.92	59,389.60	67,475.72	249,884.12	3,046.199	22.4	68,234.90

VALUATIONS AND TAXATION IN THE CITIES OF OHIO—Continued.

Cities and towns	Counties.	Valuation and taxation for 1878.					Valuation and taxation for 1877.				
		Total valuation of property in 1878.	Total rate of taxation, including 2.9-10 mills for State purposes.	Amount of State taxes.	Amount of local taxes.	Total taxes for all purposes.	Indebtedness September 1, 1878, including debts of separate school districts.	Total valuation of property in 1877.	Total rate of taxation, including 2.9-10 mills for State purposes.	Mills.	Total taxes for all purposes.
Lancaster city ..	Fairfield	2,608,880	24.2	\$7,563 75	\$55,569 15	\$63,134 90	\$36,887 87	\$2,510,130	23 0		\$57,732 99
Lima city	Allen	1,758,335	29.6	5,099 18	46,947 53	52,046 71	39,000 00	1,801,080	29 0		52,230 74
Mansfield city ..	Richland	4,635,510	22.1	13,442 97	29,001 80	102,414 77	191,550 00	4,613,290	20 6		95,651 77
Marion city	Washington ..	2,126,360	28.7	6,166 44	54,860 09	61,026 53	164,136 46	2,146,342	28 4		62,092 11
Massillon city ..	Stark	2,557,580	21.8	7,503 98	40,009 63	56,513 61	6,400 00	2,309,230	22 2		51,264 90
Middletown	Butler	1,873,475	20.6	5,433 07	33,169 51	38,593 58	71,009 60	1,867,701	25 5		47,651 87
Mt. Vernon city ..	Knox	2,201,570	20.7	6,385 42	39,193 28	45,578 70	.....	2,337,663	28 2-3		66,996 38
Newark city	Licking	4,454,463	21.9	12,917 93	84,634 80	97,552 73	40,720 79	4,366,196	22 0		96,056 31
Norwalk	Huron	2,294,783	22.30	6,654 87	44,518 79	51,173 66	52,700 00	2,496,685	23 30		58,172 76
Painesville	Lake	2,140,168	15.75	6,209 48	27,501 16	33,707 64	9,216 43	2,263,313	15 45		34,968 14
Piqua city	Miami	2,677,516	26.3	7,764 79	62,653 85	70,418 67	983,750 13	2,697,305	24 3		65,544 51
Pomeroy city	Meigs	1,991,718	25.3	5,775 99	44,614 48	50,390 47	150,000 00	2,077,103	28 4		58,959 72
Portsmouth city ..	Scioto	4,846,042	28.6	14,053 52	124,543 28	138,596 80	318,529 15	5,367,973	27 5		147,619 26
Ravenna	Portage	1,430,455	17.8	4,148 31	21,313 79	25,462 10	4,700 00	1,486,441	16 70		24,823 55
Ripley	Brown	1,065,874	21.9	3,091 03	20,251 61	23,342 64	14,300 00	1,068,396	22 8		24,359 43
Salem	Columbiana ..	2,133,924	10.8	6,188 35	16,757 99	23,046 37	.....	2,168,167	12 10		26,235 06
Sandusky city	Erie	4,020,854	32.0	11,690 54	145,152 76	156,843 30	503,125 00	4,025,848	32 2		157,813 24
Springfield city ..	Clarke	9,680,939	18 0	27,900 72	145,276 18	173,176 90	82,700 00	9,516,456	17 7		168,441 27
Steubenville city ..	Jefferson	5,344,420	17 6	15,498 82	78,662 97	94,061 79	40,613 14	5,375,400	14 2		76,330 69
Tiffin city	Seneca	2,315,520	28 41 1-5	6,723 71	59,150 08	65,873 79	57,058 86	2,398,242	30 6		73,386 21

Toledo city	Lucas	55,013 20	567,305 10	622,218 30	3,549,132 79	19,568,720	31.9	624,242 16
Troy	Miami	5,601 26	42,106 04	47,707 30	76,000 00	2,012,488	24.9	50,110 95
Urbana city	Champaign	10,111 42	57,530 50	67,641 92	115,150 00	3,603,766	15.5	66,669 67
Warren city	Trumbull	6,502 52	41,593 70	48,096 22	81,262 00	2,308,594	23.1	53,323 63
Washington C. H	Fayette	4,645 33	33,400 67	40,046 00	9,837 75	1,737,359	23.0	39,729 94
Wooster city	Wayne	6,679 51	51,880 06	58,559 57	83,152 82	2,353,819	22.9-10	53,903 30
Xenia city	Greene	9,793 92	57,104 00	66,902 92	57,791 10	3,319,188	19.30	64,639 33
Youngstown city	Mahoning	12,869 18	95,409 43	108,278 61	201,566 66	4,368,325	26.1	114,535 28
Zanesville city	Muskingum	21,112 52	147,787 66	168,909 18	535,243 18	7,525,309	22.75	171,200 58
Totals .....	.....	1,270,358 37	9,895,061 67	11,165,440 04	36,404,818 57	448,710,971	28.408	11,849,650 60

TABLE SHOWING THE AGGREGATE NET AMOUNT OF DEBTS OF ALL THE COUNTIES, TOWNSHIPS, CITIES, AND INCORPORATED VILLAGES, AND SEPARATE SCHOOL DISTRICTS IN THE STATE, AS REPORTED IN PURSUANCE OF THE ACT OF MAY 3, 1873, FOR THE YEAR 1878, AND AS COMPARED WITH THE AGGREGATE DEBTS OF 1877.

Counties.	Debts of counties.	Debts of townships.	Debts of cities and villages.	Debts of separate school districts.	Total, 1878.	Total, 1877.
Adams	\$20,837 00				\$20,837 00	\$31,150 75
Allen			\$3,464 00	\$45,000 00	45,464 00	67,800 00
Ashland			9,200 00	2,200 00	11,400 00	12,839 84
*Ashtabula						
Athens	10,675 00		23,300 00		33,975 00	46,550 00
Auglaize	62,000 00		10,652 00	44,400 00	117,052 00	53,200 00
Belmont			110,949 29	28,854 02	139,803 31	126,572 00
Brown		\$1,000 00	24,000 00		25,000 00	16,500 00
Butler	31,895 20	9,522 53	112,169 52	43,183 01	196,770 26	240,522 06
*Carroll						
Champaign	81,716 00		50,000 00	77,150 00	208,866 00	290,656 00
Clarke	41,290 00	1,500 00	51,700 00	31,000 00	125,490 00	102,400 00
Clermont		10,850 21	3,601 52	6,252 30	20,704 03	14,379 50
Columbiana	31,560 00		12,000 00		43,500 00	55,700 00
Coshocton		3,000 00	9,611 00	35,800 00	48,411 00	63,759 00
Crawford		1,000 00	6,000 00	7,000 00	13,000 00	13,000 00
Cuyahoga	324,071 77	6,612 33	89,000 00	12,350 00	102,350 00	106,631 25
Darke		1,700 00	3,578,357 84		3,909,041 94	3,350,979 67
Defiance			2,000 00	38,850 00	42,550 00	45,341 00
Delaware	53,960 00		14,000 00	13,365 62	27,365 62	37,315 60
Erie	25,000 00		16,096 66	3,600 00	73,656 66	88,380 00
Fairfield		21,393 00	458,986 00	49,344 00	554,733 00	571,627 39
Fayette	48,178 80		19,609 50	17,278 37	36,887 87	44,808 61
Franklin	93,000 00		9,837 75		58,016 55	68,232 20
Fulton	14,185 86	2,000 00	1,460,522 44	3,339 62	1,558,462 06	1,530,884 41
Gallia				10,000 00	24,156 86	35,600 00
Geauga			128,276 29		128,276 29	121,024 00
Greene			3,393 16			
Guernsey			57,791 10	18,100 00	21,553 16	18,400 00
Hamilton			6,132 40	3,688 74	61,479 84	59,079 17
Hancock	281,075 78		22,647,048 75	31,600 00	37,632 40	32,000 00
			5,134 98	6,263 32	22,934,367 85	21,947,803 37
		39,500 00		2,900 00	47,534 98	61,407 29

Hardin.....	191,000 00	7,392 84	1,850 00	198,392 84	207,291 69
Harrison.....	.....	.....	1,850 00	1,850 00	4,000 00
Henry.....	5,000 00	3,000 00	25,000 00	33,000 00	44,311 85
Higland.....	.....	.....	34,295 15	34,295 15	39,651 19
*Hocking.....	.....	.....	.....	.....	800 00
Holmes.....	.....	.....	.....	1,505 59	1,924 87
Huron.....	.....	.....	.....	77,251 88	25,400 00
Jackson.....	.....	.....	.....	1,633 32	2,449 98
Jefferson.....	14,920 35	34,226 80	6,386 34	55,633 49	86,206 56
Knox.....	13,500 00	.....	.....	13,500 00	.....
Lake.....	.....	12,716 43	.....	12,716 43	10,889 72
Lawrence.....	74,627 28	249,884 12	1,700 00	326,211 40	303,450 04
Licking.....	125,000 00	40,720 79	.....	167,353 59	119,346 73
Logan.....	121,455 02	24,740 76	44,539 08	190,734 86	157,215 73
Lorain.....	.....	.....	35,900 00	35,900 00	40,550 00
Lucas.....	140,900 02	3,556,133 79	.....	3,697,033 51	3,923,275 53
Madison.....	17,889 91	1,000 00	.....	18,359 91	11,584 04
Mahoning.....	.....	201,566 66	13,900 00	215,466 66	214,796 45
Marion.....	40,173 20	1,246 00	4,749 08	46,168 28	64,441 41
Medina.....	.....	21,263 00	1,500 00	22,763 00	20,426 86
Meigs.....	.....	160,000 00	4,150 00	164,150 00	164,500 00
Mercer.....	20,000 00	17,850 00	.....	37,850 00	44,200 00
Miami.....	36,800 00	362,738 93	6,945 00	406,343 93	491,990 03
Mourne.....	1,408 44	7,451 23	.....	8,859 67	12,364 18
Montgomery.....	76,840 00	1,141,457 18	3,034 70	1,221,361 88	1,173,298 15
Morgan.....	.....	.....	9,300 00	20,155 55	20,312 86
Morrow.....	.....	10,855 55	25,742 00	691,965 18	713,919 18
Muskingum.....	125,000 00	535,243 18	2,600 00	2,600 00	2,584 58
Noble.....	.....	.....	16,800 00	25,425 00	23,809 70
Ottawa.....	6,075 00	2,550 00	14,278 00	76,478 00	78,300 00
Paulding.....	61,000 00	1,200 00	11,658 55	11,658 55	17,245 65
Perry.....	.....	.....	.....	10,370 00	8,317 00
Pickaway.....	5,450 00	3,500 00	.....	.....	4,353 47
*Pike.....	.....	.....	11,700 00	18,700 00	13,132 33
Portage.....	.....	7,000 00	3,358 00	7,347 05	12,253 71
Preble.....	.....	3,859 03	1,000 00	35,000 00	33,000 00
Putnam.....	34,000 00	.....	11,050 00	206,400 00	199,393 01
Richland.....	.....	191,850 00	.....	115,347 63	123,376 43
Ross.....	109,490 80	5,856 83	.....	94,362 50	71,493 69
Sandusky.....	12,600 00	73,562 50	8,200 00	555,017 97	-542,767 11
Scioto.....	237,098 52	269,129 15	49,400 00	82,445 04	103,478 04
Seneca.....	15,086 18	65,358 86	1,400 00	.....	.....

TABLE SHOWING THE AGGREGATE NET AMOUNT OF DEBTS OF ALL THE COUNTIES, ETC.—Continued.

Counties.	Debts of counties.	Debts of townships.	Debts of cities and villages.	Debts of separate school districts.	Total, 1878.	Total, 1877.
Shelby	\$100,000 00	\$18,300 00	\$58,500 00	.....	\$176,800 00	\$203,500 00
Stark	58,100 00	1,500 00	225,033 17	\$62,128 43	346,851 60	361,371 68
Summit .....	.....	10,414 00	37,762 00	23,561 00	71,737 00	87,754 86
Trumbull	15,000 00	.....	31,262 00	9,100 00	55,362 00	34,500 00
Tuscarawas	18,909 56	.....	16,914 24	58,381 20	94,205 00	72,354 28
Union	177,700 00	.....	14,826 07	26,233 42	218,759 49	254,677 14
Van Wert	110,000 00	.....	15,000 00	13,000 00	138,000 00	136,500 00
*Vinton .....	.....	.....	25,534 70	3,000 00	32,534 70	39,628 80
Warren	4,000 00	.....	186,535 71	16,789 60	229,163 06	247,486 13
Washington	25,837 75	.....	67,845 00	27,313 82	124,258 82	135,605 64
Wayne	29,100 00	.....	.....	9,000 00	9,000 00	11,500 00
Williams .....	.....	.....	23,587 91	20,700 00	82,287 91	68,729 09
Wood	38,000 00	.....	.....	4,075 77	4,075 77	6,025 03
Wyandot .....	.....	.....	.....	.....	.....	.....
Totals	\$3,169,517 42	\$160,935 72	\$36,717,269 34	\$1,158,098 14	\$41,205,840 62	\$39,328,569 10

*No Debts.

BANKS.
TABLE SHOWING THE NUMBER OF BANKS AND THEIR CAPITAL STOCK IN EACH COUNTY IN OHIO AS RETURNED TO THE COUNTY AUDITORS
FOR THE YEAR ENDING APRIL 12, 1878.

Counties.	National banks.		Banks incorporated under act of February 24, 1845.		Savings banks incorporated under act of February 26, 1875.		Private banks.		Total.
	No.	Capital.	No.	Capital.	No.	Capital.	No.	Capital.	
	No.	Capital.	No.	Capital.	No.	Capital.	No.	Capital.	
Adams.....	1	\$50,000					1	\$30,000	\$80,000
Allen.....	2	155,000					6	57,834	212,835
Ashland.....	1	50,000	1	\$12,500			1	35,000	87,000
Ashtabula.....	5	520,000			3	\$230,000	2	10,425	760,425
Athens.....	1	75,000	1	9,000			1	50,000	134,000
Auglaize.....							4	54,000	54,000
Belmont.....	4	500,000	2	100,000			2	25,000	625,000
Brown.....	2	300,000							300,000
Butler.....	4	400,000							497,262
Carroll.....							4	97,262	300,000
Champaign.....	4	400,000					2	43,362	43,362
Clarke.....	4	900,000					2	33,500	933,500
Clermont.....	2	200,000					1	100,000	1,000,000
Clipton.....	2	200,000					2	24,513	224,513
Columbiana.....	5	305,000					2	45,300	245,300
Coshocton.....	1	85,000					5	64,000	369,000
Crawford.....	3	210,000					1	10,000	95,000
Cuyahoga.....	7	4,400,000					2	50,000	260,000
Darke.....	1	84,000					7	82,854	4,482,854
Defiance.....	1	100,000			1	50,000	3	59,500	143,500
Delaware.....	2	200,000							150,000
Erie.....	3	300,000					1	18,350	218,350
Fairfield.....	1	50,000					2	65,000	300,000
Fayette.....									145,000
Franklin.....	3	500,000			1	100,000	2	45,000	45,000
Fulton.....							11	180,000	780,000
Gallia.....	2	150,000					2	11,556	11,556
Geauga.....			1	†			1	100,000	250,000
Greene.....	2	220,000							250,000
							1	46,500	266,500

TABLE SHOWING THE NUMBER OF BANKS AND THEIR CAPITAL STOCK, ETC.—Continued.

Counties.	National Banks.		Banks incorpo- rated under act of February 24, 1846.		Savings banks incor- porated under act of February 26, 1875.		Private banks.		Total.	
	No.	Capital.	No.	Capital.	No.	Capital.	No.	Capital.	No.	Capital.
Guernsey	3	\$350,000	.....	.....	1	\$30,000	16	\$1,612,100	3	\$350,000
Hamilton	9	4,750,000	.....	.....	.....	.....	.....	.....	26	6,398,100
Hancock	1	50,000	.....	.....	2	50,000	3	.....	1	50,000
Hardin	2	220,000	.....	.....	.....	.....	.....	.....	5	50,000
Harrison	1	45,000	1	\$50,000	.....	.....	4	160,000	7	370,000
Henry	2	200,000	.....	.....	2	75,000	1	24,000	2	69,000
Highland	2	50,000	1	4,350	.....	.....	.....	.....	4	275,000
Hocking	1	.....	.....	.....	.....	.....	.....	.....	2	54,350
Holmes .....	.....	.....	.....	.....	.....	.....	.....	.....	3	15,766
Huron	4	250,000	.....	.....	1	80,000	3	15,766	6	345,000
Jackson	1	50,000	.....	.....	.....	.....	1	15,000	2	82,000
Jefferson	4	525,000	.....	.....	.....	.....	2	85,000	6	610,000
Knox	2	150,000	.....	.....	1	25,000	.....	.....	3	175,000
Lake	1	200,000	1	50,000	1	160,000	1	40,000	4	450,000
Lawrence	2	55,000	.....	.....	.....	.....	.....	.....	3	557,000
Licking	2	150,000	1	20,000	.....	.....	1	7,000	4	190,000
Logan	1	115,000	.....	.....	.....	.....	4	50,500	5	165,500
Lorain	3	300,000	.....	.....	1	50,000	1	29,000	5	379,000
Lucas	6	1,784,300	.....	.....	1	70,000	4	175,500	11	2,032,800
Madison	1	120,000	.....	.....	.....	.....	4	50,000	6	224,000
Maumeting	3	929,000	1	54,000	.....	.....	3	185,000	6	1,114,000
Marion .....	.....	.....	.....	.....	.....	.....	4	264,275	4	261,235
Medina	1	75,000	.....	.....	.....	.....	3	48,800	4	123,800
Meigs	1	250,000	.....	.....	.....	.....	1	6,300	2	256,300
Mercer .....	.....	.....	.....	.....	.....	.....	2	12,050	2	12,050
Miami	3	500,000	.....	.....	.....	.....	2	77,500	5	577,500
Monroe .....	.....	.....	.....	.....	.....	.....	1	50,000	1	50,000
Montgomery	5	783,910	.....	.....	1	22,500	.....	.....	7	849,680
Morgan	2	175,000	.....	.....	3	112,000	2	43,270	5	287,000
Morrow	2	160,000	1	25,000	.....	.....	.....	.....	3	185,000

Muskingum.....	1	200,000	.....	.....	.....	.....	5	114,800	6	314,800
Noble.....	2	120,000	.....	.....	.....	.....	2	.....	2	120,000
Ottawa.....	.....	.....	.....	.....	.....	.....	2	10,000	2	10,000
Paulding.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Perry.....	2	385,000	.....	.....	.....	.....	2	42,500	2	42,500
Pickaway.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	385,000
Pike.....	.....	.....	.....	.....	.....	.....	2	.....	2	.....
Portage.....	4	450,000	.....	.....	.....	.....	3	82,600	7	532,600
Preble.....	1	100,000	.....	.....	.....	.....	1	56,000	2	156,000
Putnam.....	.....	.....	.....	.....	.....	.....	3	.....	3	.....
Richland.....	2	150,000	.....	.....	1	65,000	2	12,000	5	227,000
Ross.....	2	300,000	.....	.....	.....	.....	1	33,000	3	333,000
Sandusky.....	2	150,000	.....	.....	.....	.....	2	35,000	4	185,000
Scioto.....	3	700,000	.....	.....	1	50,000	1	20,000	5	770,000
Seneca.....	2	175,000	.....	1	100,000	.....	1	30,000	4	305,000
Shelby.....	.....	.....	.....	.....	.....	.....	2	179,000	2	179,000
Stark.....	4	450,000	.....	1	25,000	.....	.....	52,000	13	527,000
Summit.....	2	250,000	.....	.....	.....	.....	8	224,000	6	549,000
Trumbull.....	2	343,028	.....	3	65,054	.....	3	.....	5	408,082
Tuscarawas.....	1	100,000	.....	.....	.....	.....	6	197,300	7	297,300
Union.....	.....	.....	.....	.....	.....	.....	5	75,000	5	75,000
Van Wert.....	1	60,000	.....	.....	.....	.....	.....	.....	1	60,000
Vinton.....	1	100,000	.....	.....	.....	.....	.....	.....	1	100,000
Warren.....	4	250,000	.....	.....	.....	.....	3	39,987	7	289,987
Washington.....	1	150,000	.....	.....	.....	.....	2	58,000	3	208,000
Wayne.....	2	80,230	.....	.....	.....	.....	2	19,004	4	99,234
Williams.....	1	60,000	.....	.....	1	30,000	.....	.....	2	90,000
Wood*.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wyandot.....	1	105,000	.....	1	25,000	.....	4	92,500	6	222,500
Totals.....	167	\$27,794,468	17	\$539,904	23	\$1,277,500	193	\$5,663,898	399	\$35,275,770

* None reported. † Capital not reported.

TABLE SHOWING THE VALUATION OF NATIONAL BANKS IN OHIO FOR TAXATION, AS FIXED BY THE STATE BOARD OF EQUALIZATION.

Name of bank.	Location.	County.	Number of shares.	Par value of each share.	County Board of Equalization.		State Board of Equalization.		Assessed value of real estate owned by each bank.	Total valuation of each bank for taxation.
					Valuation of each bank for taxation, exclusive of real estate.	Valuation of each share, exclusive of real estate.	Valuation of each share for taxation, exclusive of real estate.	Valuation of each bank for taxation, exclusive of real estate.		
Manchester National First	Manchester	Adams	\$500	\$100	\$45,000 00	\$90 00	\$92 00	\$16,000	\$4,800	\$50,800
"	Lima	Allen	550	100	44,000 00	80 00	77 00	42,350	10,760	53,110
"	Delphos	"	1,000	100	110,000 00	110 00	84 00	84,000	500	84,500
"	Ashland	Ashland	500	100	30,370 00	60 75	57 00	28,500	14,027	43,127
Ashtabula Farmers' First	Ashtabula	Ashtabula	1,000	100	51,371 00	51 37	84 00	54,000	10,275	94,275
"	"	"	1,500	100	100,781 00	60 52	88 00	132,000	13,490	145,490
"	Geneva	"	1,000	100	10,959 00	60 94	87 00	87,000	9,733	96,733
"	Jefferson	"	700	100	43,435 00	61 91	83 00	58,100	8,109	66,209
"	"	"	1,000	100	49,955 00	49 95	85 00	55,000	8,728	93,728
Second First	Athens	Athens	750	100	69,136 00	92 17	83 00	62,250	5,864	65,114
"	Barnesville	Belmont	1,000	100	97,427 00	97 42	85 00	85,000	2,573	87,573
"	Bellaire	"	1,000	100	78,821 00	78 82	83 00	83,000	1,179	84,179
"	Bridgeport	"	2,000	100	158,708 00	79 85	81 00	162,000	13,232	475,232
"	St. Clairsville	"	1,000	100	97,334 00	97 33	88 00	88,000	2,656	90,656
"	Ripley	"	1,500	100	145,440 00	96 96	87 00	130,500	4,560	135,060
"	"	Brown	1,500	100	144,113 00	96 07	90 00	135,000	5,857	140,857
Farmers' First	Hamilton	"	1,000	100	33,401 67	93 80	85 00	85,000	9,407	94,407
"	Butler	Butler	1,000	100	89,956 46	89 95	79 00	79,000	11,790	90,790
"	"	"	1,000	100	102,000 00	102 00	90 00	90,000	90,000	90,000
First	Middletown	"	1,000	100	101,767 42	101 76	82 00	82,000	6,470	88,470
"	"	"	1,000	100	80,000 00	80 00	80 00	80,000	6,700	86,700
Merchants' Third	Urbana	Champaign	1,000	100	96,000 00	96 00	93 00	94,000	4,030	97,030
Champaign Citizens' Farmers'	"	"	1,000	100	60,000 00	60 00	84 00	84,000	1,120	84,000
"	Mechanicsburg	"	1,000	100	80,000 00	80 00	83 00	83,000	83,000	83,000

First	Springfield	Clarke	4,000	100	400,000 00	100 00	89 00	356,000	290	356,290
Second	"	"	1,000	100	137,000 00	137 00	127 00	127,520	520	127,520
Lagania	"	"	1,000	100	76,000 00	76 00	85 00	85,000	.....	85,000
Mad River	"	"	3,000	100	300,000 00	100 00	85 00	255,000	.....	255,000
First	"	Clermont	1,000	100	90,000 00	90 00	80 00	89,000	.....	89,000
"	"	"	1,000	100	95,000 00	95 00	93 00	98,000	2,600	100,600
"	"	New Richmond	1,000	100	93,067 00	93 06	98 00	93,000	6,933	104,933
Clinton County	"	Clinton	1,000	109	83,832 00	83 83	92 00	92,000	6,108	98,108
First	"	"	500	100	42,500 00	85 00	86 00	43,000	4,170	47,170
"	"	Columbiana	500	100	42,500 00	85 00	86 00	44,500	1,960	46,460
"	"	"	1,320	100	118,750 00	95 00	88 00	110,000	800	110,800
"	"	New Lisbon	2,000	100	200,000 00	100 00	86 00	192,000	4,360	196,360
"	"	Salem	500	100	40,000 00	80 00	79 00	39,500	5,500	45,000
Farmers'	"	Wellsville	850	100	85,000 00	100 00	83 00	83,000	7,100	90,100
First	"	Coshocton	1,000	100	100,000 00	100 00	83 00	90,400	4,500	94,900
"	"	Bucyrus	600	100	60,000 00	100 00	81 00	40,500	6,500	47,000
Citizens'	"	Galion	500	100	50,000 00	75 00	92 00	276,000	.....	276,000
First	"	"	3,000	100	225,000 00	50 00	80 00	44,500	3,650	48,150
"	"	Cuyahoga	500	100	25,000 00	68 00	92 00	820,000	31,201	831,201
"	"	Berea	10,000	100	680,000 00	60 50	82 00	1,025,000	29,810	1,054,810
Second	"	Cleveland	12,500	100	850,000 00	72 00	84 00	1,008,000	32,155	1,040,155
Commercial	"	"	12,000	100	861,000 00	70 00	87 00	174,000	.....	174,000
Merchants'	"	"	2,000	100	140,000 00	65 00	86 00	344,000	.....	344,000
National City	"	"	4,000	100	260,000 00	125 00	94 00	78,900	2,150	81,140
Ohio National	"	Darke	840	100	105,000 00	57 00	91 00	91,000	.....	91,000
Farmers' National	"	Defiance	1,000	100	57,000 00	100 00	83 00	82,000	4,800	87,800
Defiance	"	Delaware	1,000	100	100,000 00	100 00	83 00	7,930	.....	90,930
First	"	"	1,000	100	100,000 00	71 12	85 00	3,880	.....	88,880
Delaware County National	"	Sandusky	1,000	100	71,120 00	71 77	78 00	85,000	3,225	88,225
First National	"	"	1,000	100	71,773 00	58 49	70 00	80,000	1,507	81,507
Second National	"	"	1,000	100	58,493 00	100 00	80 00	64,000	3,870	67,870
Third	"	"	800	100	80,000 00	93 41	97 00	291,000	19,760	310,760
† First	"	Fairfield	.....	100	280,340 00	100 00	123 00	123,000	.....	123,000
Hocking Valley National	"	Washington C. H.	3,000	100	100,000 00	115 00	103 00	145,000	.....	145,000
First National	"	Columbus	1,000	100	119,000 00	115 00	87 00	103,000	.....	103,000
"	"	"	1,000	100	115,000 00	90 00	64 00	43,500	.....	43,500
National exchange	"	Gallia	500	100	45,000 00	73 00	78 00	32,990	.....	32,990
First National	"	"	1,200	100	87,600 00	107 00	78 00	76,000	.....	76,000
Centreville National	"	Greene	1,000	100	107,000 00	85 00	78 00	13,642	.....	13,642
First National	"	"	1,000	100	85,000 00	85 00	78 00	78,000	.....	78,000
Second	"	Guernsey	1,000	100	85,000 00	85 00	78 00	10,695	.....	10,695
First	"	Cambridge	.....	100	85,000 00	85 00	78 00	78,000	.....	78,000

VALUATION OF NATIONAL BANKS, ETC.—Continued.

Name of bank.	Location.	County.	Number of shares.	Par value of each share.	County Board of Equal-ization.		State Board of Equal-ization.		Assessed value of real estate owned by each bank.	Total valuation of each bank for taxation.
					Valuation of each bank for taxation, exclusive of real estate.	Valuation of each share, exclusive of real estate.	Valuation of each bank for taxation, exclusive of real estate.	Valuation of each estate, exclusive of real estate.		
Guernsey National	Cambridge	Guernsey	1,500	\$100	\$132,000 00	\$88 00	\$84 00	\$126,000	\$5,050	\$131,050
Quaker City	Quaker City	"	1,000	100	85,000 00	85 00	84 00	88,000	2,535	90,535
First	Cincinnati	Hamilton	15,000	100	1,351,084 00	90 07	80 00	1,200,000	53,300	1,253,300
Second	"	"	2,000	100	204,974 00	104 48	84 00	168,000	.....	168,000
Third	"	"	8,000	100	629,035 00	86 13	76 00	608,000	36,560	644,560
Fourth	"	"	5,000	100	422,680 00	96 53	83 00	415,000	.....	415,000
Merchants'	"	"	10,000	100	946,612 00	94 66	85 00	850,000	.....	850,000
Nat'l Bank of Commerce	"	"	3,000	100	276,770 00	92 25	84 00	252,000	.....	252,000
First National	Findlay	Hancock	500	100	50,000 00	100 00	91 00	45,500	360	45,860
"	Cadiz	Harrison	1,200	100	103,000 00	85 00	88 00	105,600	5,999	111,599
Harrison	"	"	1,000	100	120,000 00	120 00	115 00	115,000	.....	115,000
First	Napoleon	Henry	.....	.....	.....	.....	.....	.....	.....	.....
Citizens'	Hillsboro	Highland	1,000	100	100,000 00	100 00	92 00	92,000	.....	92,000
Hillsboro	"	"	1,000	100	122,500 00	122 50	97 00	97,000	1,971	98,971
First	Logan	Hocking	500	100	50,000 00	100 00	86 00	43,000	.....	43,000
"	New London	Huron	1,500	100	25,500 00	51 00	83 00	41,500	1,450	42,950
"	Plymouth	"	500	100	26,000 00	52 00	78 00	39,000	3,160	42,160
"	Norwalk	"	500	100	35,000 00	70 00	99 00	49,500	.....	49,500
Norwalk	"	"	1,000	100	67,000 00	67 00	86 00	86,000	3,420	89,420
First	Jackson	Jackson	500	100	47,575 00	95 15	83 00	41,500	2,425	43,925
"	Mt. Pleasant	Jefferson	1,750	100	131,250 00	75 00	96 00	130,500	830	151,330
"	Smithfield	"	1,000	100	80,060 00	80 00	84 00	84,000	8,920	92,920
Jefferson	Steuenville	"	1,500	100	123,000 00	95 00	92 00	123,000	11,090	134,090
National Exchange	"	"	1,000	100	75,000 00	75 00	87 00	87,000	.....	87,000

First National	Mt. Vernon	Knox	500	100	47,000 00	94 00	88 00	44,000	44,000
"	"	"	1,000	100	83,745 81	83 74	80 00	80,000	86,949
Knox County National	Painesville	Lake	2,000	100	181,316 00	90 65	87 00	174,000	192,684
First National	Ironton	Lawrence	3,000	100	291,121 00	97 04	85 00	255,000	263,879
"	"	"	2,500	100	24,402 00	97 36	83 00	207,500	6,598
Second	Newark	Licking	1,000	100	100,000 00	100 00	83 00	83,000	214,095
"	Granville	"	500	100	40,000 00	80 00	85 00	44,500	850
"	Bellevfontaine	Logan	1,150	100	100,050 00	87 00	85 00	97,750	2,350
First	Elyria	Lorain	1,000	100	85,000 00	85 00	85 00	85,000	95,000
"	Oberlin	"	1,000	100	80,000 00	80 00	86 00	86,000	86,000
"	Wellington	"	1,000	100	80,000 00	80 00	86 00	80,000	86,000
"	Toledo	Lucas	5,000	100	384,000 00	76 80	89 00	445,000	20,230
"	"	"	3,500	100	269,325 00	76 95	89 00	311,500	2,130
Second	"	"	3,000	100	226,000 00	75 36	97 00	281,000	281,000
Merchants'	"	"	1,500	100	94,830 00	63 92	72 00	105,000	132,770
Northern	"	"	1,000	100	63,920 00	63 92	73 00	73,000	132,770
Toledo	"	"	1,000	100	63,920 00	63 92	73 00	73,000	14,800
"	"	"	1,000	100	63,920 00	63 92	73 00	73,000	83,000
Commercial National	London	Madison	1,200	100	124,800 00	104 00	87 00	104,400	104,400
Madison	Youngstown	Mahoning	5,000	100	395,134 00	79 27	84 00	420,000	4,866
First	"	"	2,000	100	150,000 00	75 00	84 00	168,000	168,000
Second	"	"	2,200	100	159,304 00	63 56	80 00	183,200	183,200
Mahoning	"	"	750	100	75,000 00	100 00	83 00	62,250	62,250
Phoenix	Medina	Medina	750	100	75,000 00	100 00	83 00	62,250	62,250
First	Middleport	Meigs	2,500	100	243,863 00	97 54	85 00	212,500	218,637
"	Pomeroy	"	1,000	100	90,000 00	90 00	75 00	75,000	84,830
Pomeroy	Piqua	Miami	2,000	100	220,000 00	110 00	86 00	172,000	172,000
Citizens'	"	"	2,000	100	220,000 00	110 00	86 00	172,000	172,000
Piqua	"	"	2,000	100	220,000 00	110 00	86 00	172,000	172,000
First	Troy	Montgomery	2,000	100	230,000 00	115 00	96 00	192,000	192,000
Second	Dayton	"	3,000	100	375,000 00	125 00	102 00	306,000	306,000
Dayton	"	"	3,000	100	345,000 00	115 00	96 00	288,000	288,000
Merchants'	"	"	1,354	100	138,450 00	100 00	83 00	114,913	114,913
First	Germanatown	"	750	100	93,750 00	125 00	100 00	75,000	78,620
Malta	Malta	Morgan	750	100	64,250 00	91 00	85 00	63,750	65,124
First	McConnellsville	"	1,000	100	100,000 00	100 00	87 00	87,000	90,013
"	Cardington	Morrow	1,000	100	100,000 00	100 00	86 00	86,000	90,542
"	"	"	600	100	60,000 00	100 00	95 00	57,000	59,350
"	Mt. Gilead	"	600	100	60,000 00	100 00	95 00	57,000	59,350
"	Zanesville	Muskingam	2,000	100	194,000 00	97 00	81 00	162,000	174,000
"	Caldwell	Noble	600	100	48,000 00	F 00	85 00	51,000	51,000
"	Batesville	"	600	100	47,000 00	F 00	85 00	49,000	50,400
First	Circleville	Pickaway	2,600	100	312,000 00	120 00	85 00	221,000	239,000
"	"	"	1,250	100	65,250 00	125 00	93 00	116,250	123,594
Second	"	"	1,000	100	75,000 00	100 00	83 00	62,250	62,250
First	Garrettsville	Portage	1,000	100	66,000 00	65 00	77 00	77,000	85,200

VALUATION OF NATIONAL BANKS, ETC.—Continued.

Name of bank.	Location.	County.	Number of shares.	Par value of each share.	County Board of Equalization.		State Board of Equalization.		Assessed value of real estate owned by each bank.	Total valuation of each bank for taxation.
					Valuation of each bank for taxation, exclusive of real estate.	Valuation of each share, exclusive of real estate.	Valuation of each share, exclusive of real estate.	Valuation of each bank for taxation, exclusive of real estate.		
First National.....	Ravenna.....	Portage.....	1,000	\$100	\$58,000 00	\$58 00	\$58 00	\$58,000	\$4,320	\$52,320
Second ".....	".....	".....	1,500	100	114,000 00	76 00	74 00	111,000	20,700	131,700
Kent ".....	Kent.....	".....	1,000	100	81,000 00	81 00	80 00	80,000	7,720	87,720
First ".....	Eaton.....	Preble.....	1,000	100	107,000 00	107 00	92 00	92,000	3,692	95,692
Farmers' ".....	Mansfield.....	Richland.....	1,000	100	97,242 56	97 24	77 00	77,000	8,400	85,400
First ".....	Shelby.....	".....	1,500	100	50,924 06	101 84	81 00	40,500	1,240	41,740
".....	Chillicothe.....	Ross.....	1,500	100	232,500 00	155 00	155 00	232,500	5,226	237,726
† Chillicothe National.....	".....	".....	1,500	100	153,000 00	102 00	88 00	132,000	132,000	132,000
Ross County ".....	".....	".....	1,000	100	118,700 00	118 70	106 00	106,000	11,500	117,500
First ".....	Fremont.....	Sandusky.....	500	100	40,400 00	80 80	84 00	42,000	6,428	42,000
".....	Bellevue.....	".....	2,000	100	170,000 00	85 00	90 00	180,000	2,853	186,428
".....	Portsmouth.....	Scioto.....	2,500	100	212,500 00	85 00	83 00	207,500	2,853	210,353
Farmers' ".....	".....	".....	2,500	100	225,000 00	90 00	87 00	217,500	2,495	219,995
† Kinney ".....	".....	".....	500	100	54,500 00	109 00	80 00	44,500	500	45,000
Portsmouth ".....	".....	".....	1,250	100	87,500 00	70 00	78 00	97,500	6,147	103,647
First ".....	Green Spring.....	Seneca.....	520	100	7,000 00	13 03	13 03	7,000	3,000	10,000
National Exchange.....	Tiffin.....	Shelby.....	500	100	41,520 00	83 04	69 00	34,500	3,766	35,266
First National.....	Sidney.....	Stark.....	1,000	100	91,430 00	91 43	69 00	69,000	22,690	91,690
".....	Alliance.....	".....	2,000	100	192,500 00	96 25	89 00	175,000	2,730	180,730
".....	Canton.....	".....	1,000	100	99,330 00	99 33	89 00	89,000	2,970	91,970
".....	Massillon.....	".....	1,500	100	105,000 00	70 00	95 00	142,500	4,530	147,330
Union ".....	".....	".....	1,000	100	70,000 00	70 00	94 00	94,000	4,508	98,508
† First ".....	Minerva.....	Summit.....	1,500	100	105,000 00	70 00	95 00	142,500	4,530	147,330
".....	Akron.....	".....	1,000	100	70,000 00	70 00	94 00	94,000	4,508	98,508
Second ".....	".....	".....	1,000	100	70,000 00	70 00	94 00	94,000	4,508	98,508

First "	Warren.....	Trombull.....	3,000	100	225,000 00	75 00	83 00	249,000	13,104	262,104
Trombull National	"	"	1,500	100	114,028 00	78 68	83 00	124,500	5,528	130,028
Citizens' "	New Philadelphia	Tuscarawas	1,000	100	85,000 00	85 00	81 00	81,000	2,554	83,554
First "	Van Wert.....	Van Wert.....	600	100	61,800 00	103 00	87 00	52,200	3,189	55,389
Vinton County National	McArthur.....	Vinton.....	1,000	100	85,000 00	85 00	83 00	83,000	1,244	84,244
First "	Franklin.....	Warren.....	1,000	100	120,000 00	120 00	106 00	106,000	.....	106,000
Farmers' "	"	"	500	100	50,000 00	100 00	87 00	43,500	.....	43,500
Waynesville "	Waynesville.....	"	500	100	47,500 00	95 00	86 00	43,000	.....	43,000
First "	Marietta.....	Washington	1,500	100	144,878 00	96 51	81 00	121,500	5,122	126,622
"	Beverly	"	1,020	100	5,100 00	5 00	5 00	5,100	.....	5,100
National Bank of Wooster	Wooster	Wayne	539	100	37,730 00	70 00	87 00	46,893	3,945	50,838
Wayne County National	"	"	500	100	42,500 00	85 00	75 00	37,500	8,190	45,690
First "	Bryan	Williams	600	100	42,872 00	71 45	77 00	46,200	6,410	52,610
"	Upper Sandusky	Wyandot	1,050	100	126,000 00	120 00	101 00	106,050	.....	106,050
Lebanon "	Lebanon.....	Warren.....	500	100	50,000 00	100 00	85 00	42,500	.....	42,500
Totals .....	.....	.....	.....	.....	\$23,814,948 95	.....	.....	\$23,570,816	\$940,896	\$24,511,712

† Discontinued since last year.

TABLE SHOWING THE VALUATION OF OHIO BANKS FOR TAXATION, BY THE STATE BOARD OF EQUALIZATION, OF BANKS AND BANKING ASSOCIATIONS INCORPORATED OR ORGANIZED UNDER THE LAWS OF OHIO, AS PROVIDED IN THE ACT OF APRIL 12, 1877. (O. L. vol. 74, page 88.)

Name of bank.	Location.	County.	Valuation of each bank, exclusive of real estate, as fixed by county boards of equalization.	Capital of each bank paid in.	Per cent. of paid-up capital for valuation, by State Board.	Valuation of each bank, exclusive of real estate, as fixed by State Board.
Ashtabula Savings and Loan Association.....	Ashtabula	Ashtabula	\$50,025 00	\$100,000 00	64	\$64,000 00
Conneaut Mutual Loan Association	Conneaut	"	43,440 00	80,000 00	69	55,280 00
Morgan Savings and Loan Association	Morgan	"	39,450 00	50,000 00	75	37,500 00
Ohio City Bank	Martin's Ferry	Belmont	33,380 00	50,000 00	74	37,000 00
Belmont Bank	Somerton	"	35,382 00	50,000 00	74	37,000 00
Berea Savings and Loan Association	Berea	Cuyahoga	10,000 00	23,000 00	68	17,000 00
Defiance Savings Bank	Defiance	Defiance	33,330 00	33,326 43	78	25,994 00
Citizens Savings Bank	Columbus	Franklin	80,080 00	100,000 00	78	78,000 00
Capital City Bank	"	"	10,000 00	12,500 00	72	9,000 00
Bank of Cincinnati	Cincinnati	Hamilton	96,645 00	100,000 00	74	74,000 00
German Banking Company	"	"	149,398 00	250,000 00	68	170,000 00
Western German Bank	"	"	47,903 00	100,000 00	50	50,000 00
Citizens' Savings Bank	Findlay	Hancock	1,000 00	43,650 00	60	26,190 00
Hardin Savings Bank	Kenton	Hardin	6,500 00	25,000 00	42	10,500 00
Kenton Savings Bank	"	"	9,300 00	25,000 00	74	18,500 00
Farmers' and Mechanics' Savings and Loan Ass'n	Cadiz	Harrison	35,000 00	50,000 00	68	34,000 00
Bellevue Bank	Bellevue	Huron	25,000 00	80,000 00	64	51,200 00
Knox County Savings Bank	Mt. Vernon	Knox	22,500 00	25,000 00	103	25,750 00
Exchange Bank	Madison	Lake	32,800 00	50,000 00	68	34,000 00
Toledo Savings Bank and Trust Company	Toledo	Lucas	36,442 00	70,000 00	61	42,700 00
Farmers' Bank	Mt. Sterling	Madison	44,960 00	50,200 00	75	32,150 00
Monroe Bank	Woodstock	Monroe	17,000 00	50,000 00	68	34,000 00
Dayton Savings Bank	Dayton	Montgomery	30,000 00	30,000 00	75	22,500 00
Cardington Banking Company	Cardington	Morrow	25,000 00	25,000 00	96	24,000 00
Kent Savings and Loan Association	Kent	Portage	10,000 00	12,000 00	75	9,450 00

Garrettsville Savings and Loan Association	Garrettsville	"	8,000 00	39,500 00	61	24,095 00
Mansfield Savings Bank	Mansfield	Richland	25,844 09	50,000 00	50	25,000 00
Citizens' Savings Bank	Portsmouth	Scioto	42,500 00	50,000 00	75	37,500 00
Commercial Bank	Tiffin	Seneca	87,000 00	100,000 00	71	71,000 00
Farmers' Bank	Canton	Stark	15,000 00	25,000 00	75	18,750 00
Citizens' Savings and Loan Association	Akron	Summit	46,500 00	75,000 00	120	90,000 00
Citizens' Savings and Loan Association	Niles	Trumbull	12,054 00	37,339 84	61	23,143 00
Girard Savings Bank	Girard	"	20,000 00	25,000 00	94	23,500 00
Hubbard Savings Bank	Hubbard	"	33,000 00	50,000 00	66	33,000 00
Central Bank	Upper Sandusky	Wyandot	20,000 00	25,000 00	66	16,500 00
Totals .....	.....	.....	\$1,235,073 09	\$1,970,716 33		\$1,392,122 00

BONDS.

TABLE SHOWING THE AMOUNT OF BONDS EXEMPT FROM TAXATION IN EACH COUNTY IN OHIO AS REPORTED BY COUNTY AUDITORS.

Counties.	Bonds exempt from taxation.	Counties.	Bonds exempt from taxation.
Adams	\$131,416	Licking	\$16,272
Allen	9,963	Logan	2,400
Ashland	54,910	Lorain	20,305
Ashtabula	81,120	Lucas	3,000
Athens	14,637	Madison	13,661
Auglaize	23,580	Mahoning	80,020
Belmont	153,257	Marion	2,409
Brown	55,423	Medina	25,625
Butler	108,880	Meigs	21,163
Carroll	8,008	Mercer	17,122
Champaign	6,790	Miami	53,715
Clarke	66,900	Monroe	56,010
Clermont	81,817	Montgomery	222,141
Clinton	43,676	Morgan	24,197
Columbiana	54,685	Morrow	9,947
Coshocton	29,909	Muskingum	1,037,052
Crawford	43,860	Noble	52,369
Cuyahoga	160,191	Ottawa	7,370
Darke	16,653	Paulding	22,096
Defiance	3,600	Perry	28,541
Delaware	15,005	Pickaway	43,370
Erie	45,575	Pike	46,711
Fairfield	69,159	Portage	113,080
Fayette	11,651	Preble	80,037
Franklin	38,842	Putnam	7,570
Fulton	2,621	Richland	60,179
Gallia	36,314	Ross	32,575
Geauga	89,914	Sandusky	26,900
Greene	97,579	Scioto	34,204
Guernsey	22,476	Seneca	45,316
Hamilton	1,855,254	Shelby	3,669
Hancock	41,162	Stark	52,613
Hardin	4,535	Summit	148,260
Harrison	45,800	Trumbull	347,337
Henry	1,439	Tuscarawas	24,534
Highland	57,363	Union	18,196
Hocking	29,666	Van Wert	2,124
Holmes	13,529	Vinton	12,961
Huron	108,240	Warren	158,737
Jackson	82,948	Washington	199,993
Jefferson	17,010	Wayne	66,874
Knox	10,565	Williams	3,683
Lake	115,553	Wood	18,050
Lawrence	50,584	Wyandot	2,128
Total			\$7,283,578

RAILROAD STATISTICS.

TABLE SHOWING THE VALUATION OF RAILROAD PROPERTY IN EACH COUNTY AND TOTAL TAXES LEVIED THEREON, AS REPORTED BY COUNTY AUDITORS.*

Counties.	Valuation.	Taxes.	Counties.	Valuation.	Taxes.
Adams	5,165	\$127 56	Licking	1,222,950	\$16,108 50
Allen	1,471,789	28,911 30	Logan	914,320	11,467 42
Ashland	580,318	7,192 29	Lorain	2,143,340	25,044 11
Ashtabula	1,928,758	29,298 38	Lucas	2,411,410	68,380 12
Athens	792,842	14,248 41	Madison	612,540	6,926 77
Auglaize	258,424	4,031 89	Mahoning	855,516	10,176 81
Belmont	814,343	10,052 34	Marion	1,217,104	12,865 25
Brown	60,894	919 92	Medina	243,199	2,370 75
Butler	1,279,398	13,692 86	Meigs .....	.....	.....
Carroll	269,875	2,132 72	Mercer .....	.....	.....
Champaign	1,149,723	12,395 84	Miami	670,695	9,004 80
Clarke	1,335,115	13,518 66	Monroe † .....	.....	.....
Clermont	193,060	2,686 06	Montgomery	1,357,190	19,238 92
Clinton	434,351	6,192 16	Morgan † .....	.....	.....
Columbiana	2,533,600	23,697 21	Morrow	599,037	5,443 48
Coshocton	407,230	4,817 49	Muskingum	913,049	11,996 59
Crawford	1,528,330	25,966 33	Noble	66,407	798 37
Cuyahoga	3,989,356	72,241 12	Ottawa	1,324,917	25,523 25
Darke	1,212,850	15,879 37	Paulding	239,796	6,688 56
Defiance	565,754	13,928 36	Perry	471,226	9,583 16
Delaware	1,135,038	12,462 50	Pickaway	346,918	4,137 52
Erie	1,362,671	33,598 64	Pike	197,975	2,666 11
Fairfield	726,944	9,412 26	Portage	1,537,567	16,984 54
Fayette	284,714	4,183 27	Preble	547,406	5,512 61
Franklin	2,249,790	26,485 12	Putnam	302,220	6,336 28
Fulton	759,800	15,589 49	Richland	23,314	23,546 04
Gallia	2,500	55 50	Ross	685,659	8,289 88
Geauga	95,870	938 10	Sandusky	1,157,599	17,345 02
Greene	897,857	9,722 90	Scioto	309,588	5,342 31
Guernsey	453,001	5,877 47	Seneca	1,040,987	14,214 22
Hamilton	2,762,642	55,389 40	Shelby	841,810	12,461 13
Hancock	240,404	3,569 35	Stark	2,179,336	25,294 36
Hardin	1,272,800	24,672 26	Summit	789,380	9,349 41
Harrison	477,640	4,302 94	Trumbull	1,505,296	14,396 28
Henry	535,325	12,913 07	Tuscarawas	1,083,392	17,039 93
Highland	251,065	3,094 20	Union	847,841	11,083 57
Hoeking	596,666	8,459 70	Van Wert	1,048,645	20,556 32
Holmes	493,830	6,186 74	Vinton	283,632	4,748 09
Huron	1,624,099	21,601 01	Warren	937,025	9,756 77
Jackson	343,952	5,708 38	Washington	433,978	6,648 69
Jefferson	1,681,020	15,923 39	Wayne	1,804,832	20,117 55
Knox	473,818	4,822 61	Williams	752,097	10,320 16
Lake	1,177,868	12,328 03	Wood	1,359,930	26,390 57
Lawrence	152,859	2,513 62	Wyandot	1,243,990	16,914 63
Totals	76,113,501	\$1,128,116 81			

* For railroad mortgages and cancellations see conveyance statistics.

† No railroads.

Cleveland, Mt. Vernon and Columbus.....	1,023,018 00	951,140 00	159,182 00	1,103,322 00
" and Newburgh.....	9,300 00			
" and Pittsburgh.....	6,301,223 00	5,731,765 00		5,731,765 00
Tuscarawas Valley and Wheeling.....	1,063,958 00	911,017 00		911,017 00
Columbus and Hocking Valley.....	1,848,793 00	1,797,147 00		1,797,147 00
" Springfield and Cincinnati.....	529,127 50	516,124 10		516,124 10
" and Toledo.....	845,352 00	1,262,626 00		1,262,626 00
Washington and Cincinnati.....		30,860 00		30,860 00
Dayton and Michigan.....	2,498,997 00	2,356,070 00		2,356,070 00
" and Union.....	318,645 00	296,216 00		296,216 00
" and Southeastern Narrow Gauge.....	165,300 00	208,674 00		208,674 00
Eastern Ohio.....	13,360 00	10,400 00		10,400 00
Gallipolis and Columbus.....		2,500 00		2,500 00
Harrison Branch.....	23,146 00	14,214 00		14,214 00
Hayden's Switch.....	54,570 00	55,609 00		55,609 00
Hazleton and Leetonia.....	11,390 00	10,000 00		10,000 00
Iron.....	163,775 00	141,202 00		141,202 00
Lake Erie, Alliance and Wheeling.....	27,360 00	21,300 00		21,300 00
" and Lonsville.....	262,432 00	310,850 00		310,850 00
Lake Shore and Michigan Southern.....	13,331,077 00	13,114,641 00		12,996,609 00
Lake View and Collamer.....	20,235 00	15,212 00		15,212 00
Mahoning Coal.....	369,768 00	354,905 00		354,905 00
Mansfield, Coldwater and Lake Michigan.....	338,840 00			
Marietta and Cincinnati.....	3,245,471 00			
" Pittsburgh and Cleveland.....	296,572 00	2,816,916 00		2,816,916 00
Miami Valley Narrow Gauge.....		232,525 00		232,525 00
Mt. Adams and Eden Park Inclined.....	44,270 00	8,200 00		8,200 00
Northwestern Ohio.....	276,945 00	536,740 00		44,270 00
Ohio Central.....	75,200 00	73,200 00		536,740 00
" and Mississippi.....	613,415 00	240,942 00		73,200 00
" and Toledo.....	12,000 00	25,565 00		240,942 00
Packard Coal Company.....	800 00	800 00		25,565 00
Painesville and Youngstown.....	277,935 00	175,779 00		800 00
Pantling and Cecil.....		5,000 00		175,779 00
Pittsburgh, Cincinnati and St. Louis.....	2,653,434 00	2,497,551 00		5,000 00
" " (Little Miami Division).....	3,577,772 00	3,131,020 00		2,719,101 00
" " (Col. Chi & Ind. Gen. Div.).....	2,469,341 00	2,243,992 00		3,131,020 00
" " " (Cin. & Musk. Val. Div.).....	1,043,534 00	997,734 00		2,243,992 00
Pittsburgh, Fort Wayne and Chicago.....	10,418,179 00	11,538,786 00		1,071,959 00
Powers Coal Company.....	3,000 00	2,500 00		10,732,001 00
A. and W. Powers.....	5,000 00	3,000 00		2,500 00
Price's Inclined Plane.....	50,760 00	33,255 00		3,000 00
				33,255 00

VALUATIONS OF PROPERTY OF RAILROAD COMPANIES IN OHIO, ETC.—Continued.

Names of railroads.	Valuations as fixed by State Board, 1877.	Valuations as fixed by County Boards, 1878.	Additions.	Deductions.	Valuations as fixed by State Board, 1878.
Pullman Palace Car Company, on A. and G. W.	\$9,324 00	\$9,324 00	.....	.....	\$9,324 00
" " " " on Cincinnati and Indiana.	4,610 00	.....	.....	.....	.....
" " " " on M. and C.	44,230 00	.....	.....	.....	.....
" " " " Dayton and Michigan, Agent.	7,378 00	7,378 00	.....	.....	7,378 00
" " " " Little Miami.	.....	.....	.....	.....	.....
Rocky River	16,500 00	16,519 00	.....	.....	16,519 00
Salineville Branch.	15,000 00	14,850 00	.....	.....	14,850 00
Scioto Valley.	309,573 00	15,000 00	.....	.....	15,000 00
Springfield, Jackson, and Pomeroy.	.....	699,913 00	.....	.....	699,913 00
Thomas Iron Works.	1,420 00	291,695 00	.....	.....	291,695 00
Toledo, Canada Southern, and Detroit.	1,420 00	1,420 00	.....	.....	1,420 00
" " " " and State Line.	49,850 00	49,850 00	.....	.....	49,850 00
" " " " Delphos, and Indianapolis.	20,850 00	20,850 00	.....	.....	20,850 00
" " " " and Woodville.	.....	14,100 00	.....	.....	14,100 00
" " " " and Ann Arbor.	.....	154,402 00	.....	.....	154,402 00
Wabash	1,089,223 00	3,000 00	.....	.....	3,000 00
Wheeling and Lake Erie.	.....	1,089,224 00	.....	.....	1,089,224 00
Youngstown	4,000 00	14,983 00	.....	.....	14,983 00
" " " " and Canfield Switch.	15,000 00	3,500 00	.....	.....	3,500 00
" " " " and Austintown.	6,000 00	.....	.....	.....	.....
Totals	\$83,264,800 12	\$79,337,311 00	\$1,112,462	\$1,111,587	\$79,338,186 45

* \$1,500 per mile added from Bellaire to Newark, \$156,230.

b \$1,000 " deducted from Columbus to Newark, \$32,480.

c \$2,000 " added, \$232,500.

d \$2,500 " " \$275,775.

e 2 per cent. on total value deducted, \$153,200.

f 16 " " added, \$152,182.

g 9-10 of 1 per cent. deducted, \$118,032.

h \$1,000 per mile from Columbus to Newark and \$1,500 per mile from Newark to Steubenville added, \$221,550.

i \$500 per mile added, \$74,225.

j 7 per cent deducted, \$307,785.

* From annual report of the Auditor of State.

RAILROAD STATISTICS.—Continued.

THE RAILROADS OF OHIO.

(Prepared for the Annual Report of the Secretary of State.)

BY C. T. FLOWERS.

The following items are compiled from the annual returns made by the railway companies in the State to the Railroad Commissioner, for the year ending June 30, 1878:

Increase in length of completed main track, miles.....	268.39
Length of main line and branches, miles.....	4,9-7.19
Length of sidings and other tracks, miles.....	1,277.34
Total of track laid with rail in Ohio, miles.....	6,264.53
Amount of capital stock paid in.....	\$157,112,438 61
Amount of funded and other debt.....	\$173,130,592 74
Total of stock and debt.....	\$330,243,031 35
Number of passengers carried.....	16,816,067
Tons of freight carried.....	31,924,747
Gross earnings.....	\$32,277,856 02
Net earnings (less \$15,192.12 loss upon four roads).....	\$10,521,941 13
Killed—Passengers.....	6
Employees.....	63
Others.....	125
	194
Injured—Passengers.....	26
Employees.....	237
Others.....	104
	367

RAILWAY MILEAGE EACH YEAR FROM 1841 TO 1878, INCLUSIVE.

1841.....	36	1860.....	2,974
1842.....	84	1861.....	3,024
1843.....	84	1862.....	3,024
1844.....	84	1863.....	3,051
1845.....	84	1864.....	3,051
1846.....	84	1865.....	3,176
1847.....	129	1866.....	3,197
1848.....	274	1867.....	3,214
1849.....	274	1868.....	3,255.92
1850.....	299	1869.....	3,324.02
1851.....	572	1870.....	3,374
1852.....	890	1871.....	3,457.61
1853.....	1,385	1872.....	3,786.61
1854.....	1,500	1873.....	4,162.97
1855.....	1,641	1874.....	4,374.44
1856.....	1,869	1875.....	4,460.93
1857.....	1,880	1876.....	4,458.98
1858.....	2,788	1877.....	4,718.80
1859.....	2,897	1878.....	4,987.19

* From 1867, each year ends June 30.

The increase of completed main track within the State was, upon the—

	MILES.
Bellaire and South Western Railway	*10
Cincinnati and Eastern Railway.....	*20.44
Cincinnati and Portsmouth Railroad.....	*20.60
Columbus and Hocking Valley Railroad	12.50
Columbus, Washington and Cincinnati Railway.....	*23.33
Dayton and South Eastern Railroad	*20.09
Lake Erie, Alliance and Wheeling Railroad	*4
Lake Erie and Louisville Railroad.....	20.85
Painesville, Canton and Bridgeport Narrow-Gauge Railroad.....	*5
Paulding and Cecil Railroad.....	*6.70
Pittsburgh, Cincinnati and St. Louis Railway.....	.51
Scioto Valley Railway.....	49.19
Springfield, Jackson and Pomeroy Railroad	*85
Toledo, Delphos and Indianapolis Railway	*16
Toledo and Grand Rapids Railroad	*6
	300.21
Less—Cleveland, Mt. Vernon and Delaware Railroad (rail taken up).....	1.56
Mansfield, Coldwater and Michigan Railroad (rail taken up).....	27.21
Marietta, Pittsburg and Cleveland Railway (reported less).....	.81
Ohio and Toledo Railroad (reported less).....	.99
Toledo and Woodville Railroad (reported less).....	1.19
Balance of corrections made.....	.06
	31.82
Net gain.....	268.39

* 36-inch gauge.

TABLE SHOWING THE LENGTH, STOCK, AND DEBT OF EACH RAILROAD IN OHIO, JUNE 30, 1872, WITH THE TRAFFIC THEREON, FROM ANNUAL REPORTS MADE TO THE RAILROAD COMMISSIONER

Company.	Miles of track laid.		Stations and other tracks.	Capital stock paid in.		Funded and other debt. (a)	Passengers carried. (b)		Tons freight carried. (b)		Gross earnings.	Net earnings.
	Main line and branches.	Miles of track laid.					(i)	(j)	(k)	(l)		
Ashland, Youngstown and Pittsburgh Railroad	62.00	6.08		\$1,842,880 00		\$2,196,426 24	58,207	370,905	370,905	824,785 61	800,793 60	
Atlantic and Great Western Railroad	247.82	60.41		20,311,428 25		36,287,710 04	891,462	2,498,685	2,498,685	2,534,546 40	460,005 35	
Baltimore and Ohio Railroad	110.31	17.32		631,551 22		4,649,784 70	40,757	454,563	454,563	418,749 53	158,064 31	
Baltimore and North Western Railroad	30.33	6.30		1,243,440 00		550,098 81	(i)					
Bell and South Western Railroad (c)	10.	5.0		152,332 00		100,350 00	(j)					
Bowling Green Railroad (d)	5.50											
Central Ohio Railroad	137.29	36.61		2,838,550 00		2,500,000 00	11,000	6,240	6,240	6,120 00	9,582 60	
Chicago and Canada Southern Railroad	4.50	3.0		177,563 61		500,907 92	231,085	68,710	68,710	607,723 16	555,316 17	
Cincinnati and Baltimore Railroad	5.80	11.85		1,247,435 00		50,000 00	61,127	82,260	82,260	4,546 75	(g)	
Cincinnati and Electric Railway (e)	58.01	1.64		195,479 75		920,870 95	75,714	18,977	18,977	57,589 42	97,923 82	
Cincinnati, Hamilton and Dayton Railroad	59.93	39.72		3,500,000 00		6,850,562 79	930,569	759,569	759,569	935,497 82	331,663 86	
Cincinnati, Hamilton and Indianapolis Railroad	19.	1.60				680,678 53	152,052	210,263	210,263	69,978 31	92,955 04	
Cincinnati and Indiana Railroad	20.50	10.53		43,320 00		2,328,828 70	549,587	457,155	457,155	150,343 31	56,778 44	
Cincinnati and Muskingum Valley Railroad	14.45	13.47		3,397,310 00		2,007,368 64	186,071	247,955	247,955	322,284 69	24,306 31	
Cincinnati and Portsmouth Railroad	20.60	1.10		83,619 82		146,258 68	19,264	447	447	5,088 13	942 44	
Cincinnati and Richmond and Chicago Railroad	36.00	2.40		382,600 00		625,040 00	83,155	116,371	116,371	168,127 56	66,822 12	
Cincinnati, Sandusky and Cleveland Railroad	169.76	15.96		4,414,787 45		2,650,477 41	203,731	364,976	364,976	647,301 65	112,824 46	
Cincinnati and Springfield Railroad	48.05	12.01		1,100,000 00		3,992,881 62	254,672	524,767	524,767	691,751 54	192,324 65	
Cleveland, Columbus, Cincinnati and Indianapolis R'y	306.69	98.21		11,749,719 16		4,355,911 75	1,731,973	1,731,973	1,731,973	2,696,142 39	418,324 33	
Cleveland and Mahoning Valley Railroad	123.35	94.47		2,728,200 00		1,967,600 00	251,092	(k)	(k)	(k)	(k)	
Cleveland, May Vernon and Delaware Railroad	144.01	19.10		1,768,251 38		3,547,519 10	2,212,153	231,924	231,924	142,746 47	26,733 80	
Cleveland and Newburgh Railroad (d)	3.31			42,490 00		46,725 55	(h)			382,557 18	84,248 56	
Cleveland and Pittsburgh Railroad	174.77	56.		10,369,351 53		4,691,255 53	571,674	1,400,767	1,400,767	1,860,579 19	925,541 49	
Cleveland, Toledo and Wheeling Railroad	101.14	35.39		1,035,950 00		5,649,807 60	132,725	512,341	512,341	473,124 41	141,785 92	
Columbus, Cincinnati and Hamilton Railroad	135.80	50.10		3,270,455 54		3,641,049 03	68,246	1,624,632	1,624,632	708,421 15	119,704 76	
Columbus and Hickory Valley Railroad	100.50	25.50		2,030,150 00		2,515,381 34	14,653	978,115	978,115	565,866 40	364,628 31	
Columbus, Springfield and Cincinnati Railroad	14.57	2.25		1,000,000 00		1,010,210 00	(i)					
Columbus and Toledo Railroad	117.57	13.32		852,781 15		2,346,011 65	151,921	279,240	279,240	438,209 72	157,618 34	
Columbus, Washington and Cincinnati Railroad (e)	23.53	2.25		67,400 00		101,782 65	2,808	7,488	7,488	9,116 61	(f)	
Columbus and Xenia Railroad	5.24	9.98		1,783,200 00		302,000 00	309,674	422,303	422,303	831,019 79	288,068 39	
Dayton and Michigan Railroad	140.71	29.33		3,667,627 70		3,176,519 03						

Toledo, Delphos and Indianapolis Railway (c)	(c) 16	1.	79,196 92	358,457 00	(h)	(h)	9,701 94	4,139 33
Toledo and Grand Rapids Railroad (e)	6.	.....	31,000 00	90,000 00	(g)	.....	.....	.....
Toledo and Maumee Narrow Gauge Railroad (c)	8.	.50	41,800 00	17,738 98	45,277	1,000	10,353 83	933 14
Toledo and State Line Railroad	4.17	.....	160,000 00	.....	.....	.....	.....	.....
Toledo and Woodville Railroad	17.48	3.21	.....	(g) 435,000 00	99,356	119,838	58,593 62	7,130 59
Wabash Railroad	75.50	24.66	1,984,536 76	2,538,415 25	904,486	1,594,170	516,425 28	146,708 57
Wheeling and Lake Erie Railroad (c)	(c) 12.50	.....	172,497 00	236,000 00	(h)	.....	.....	.....
Totals	(f) 4,987.19	(f) 1,277.34	\$157,112,438 61	\$173,130,592 74	16,916,067	31,924,747	\$32,277,856 02	\$10,537,133 25

(a) Net means available to payment deducted.

(b) On entire lines.

(c) Thirty-six inch gauge.

(d) Suburban road.

(e) Not completed.

(f) 32.32 miles of main line and 12.46 of side track between Columbus and Newark, owned jointly by Central Ohio and Pittsburgh, Cincinnati and St. Louis, and

counted in both lines, deducted.

(g) Bonds issued by the city of Toledo.

(h) Not reported.

(i) The track, earnings, etc., upon main line Cleveland and Mahoning Valley Railway—80 miles—included.

(j) Included in Marietta and Cincinnati.

(k) Company owned by the State of Ohio and Vienna branches only.

(l) Operated by the Cincinnati, Sandusky and Cleveland.

(m) Included in the Little Miami Division, Cincinnati and St. Louis.

(n) Operated by the Lake Shore and Michigan Southern.

(o) Operated by the Cleveland, Mt. Vernon and Delaware.

(p) Operated by the Toledo and Maumee Narrow Gauge.

Deficits—(q) \$281.39; (r) \$1,038.36; (s) \$3,653.76; (t) \$10,218.70; total, \$15,192.12.

TURNPIKES AND PLANK ROADS.

TABLE SHOWING THE NUMBER, LENGTH, AND COST OF TURNPIKES AND PLANK ROADS IN OHIO, AS REPORTED BY COUNTY AUDITORS.

Counties.	Turnpikes incorporated.			Plank roads incorporated.			Free turnpikes and free plank roads.			Total cost.		
	Number.	Miles built within the year.	Total length—miles.	Cost.	Number.	Miles built within the year.	Total length—miles.	Cost.				
Adams	5		38	\$187,000				10	80	\$258,000	\$145,000	
Anguila	1		5	10,000	1	10	\$14,000	8	22	52	92,600	
Belmont	4		30	267,000				6	40	250,000	517,000	
Brown	5		31	93,750				21	141	500,000	593,750	
Butler	12		14	†			†	27	15	145	†	
Champaign	2		17	12,600				84	357	589,050	601,650	
Clarke	21		176	422,400				10	40	88,000	510,400	
Clermont	7		82	328,000				11	55	275,000	603,000	
Clinton	2		23	230,000				70	25	305	1,095,000	
Cuyahoga					1	9	9	8,662			8,662	
Darke	2		12	15,000				119	4	608	1,079,000	
Delaware	1		12	36,000				15	3	80	107,835	
Erie	1		8	†							†	
Fairfield	4		64	178,000				4	39	78,001	246,000	
Fayette								31	7	262	85,000	
Franklin	8		90	†				15	15	60	90,000	
Greene	4		39	†				24	163	†	†	
Hamilton	13		132	†							†	
Hardin								23	15	200	550,000	
Harrison								1			†	
Highland								16		136	†	
Hocking	1		4	2,000							2,000	
Jefferson								1	2	5,969	5,969	
Logan								43	10	240	707,818	
Madison	3		30	90,000				29	219	438,000	528,000	
Marion	2		15	31,867				14	101	4	30,709	
Meeker								1	6	6	12,000	
Miami	5		26	32,500				93	25	395	530,000	
Morrow	1		11	18,000				1	2	3,000	21,000	
Muskingum	1		13	†				1	28	†	†	
Noble	1		13	110,000							110,000	
Paulding								1	7	7	3,500	
Pickaway	11		101	†				14	113	282,500	282,500	
Pike	3		37	37,000							37,000	
Pretle	3		32	†				9	65	130,000	130,000	
Ross	10		106	263,000				4	37	75,000	340,000	
Sandusky								4	21	71,975	71,975	
Schooto	1		16	50,000				15	151	450,000	500,000	
Shelby								56	1	280	791,000	
Union								†	300	700,000	700,000	
Warren	6		39	11,700				115	4	5,014	490,750	
Wood								72	34	239	569,312	
Totals	146		1,346	\$2,427,817	2	9	19	\$22,662	972	2,031	5,431	\$9,812,818

* Free plank roads.

† Cost not reported.

‡ Number not reported.

CONVEYANCE STATISTICS,

AS

REPORTED BY COUNTY RECORDERS.

TABLE SHOWING THE NUMBER OF "ONE DOLLAR CONSIDERATION SALES," TOTAL NUMBER OF DEEDS RECORDED, AND TOTAL CONSIDERATION IN EACH COUNTY OF OHIO, AS REPORTED BY THE COUNTY RECORDER FOR THE YEAR ENDING JUNE 30, 1878.

Counties.	Number of deeds recorded for all one dollar consideration sales.	Total number of deeds recorded.	Total consideration.
Adams.....	16	606	636,110
Allen.....		789	852,370
Ashland.....	12	595	1,160,096
Ashtabula.....	65	1,312	1,342,015
Athens.....	26	1,048	679,648
Anglaize.....	28	705	318,543
Belmont.....	37	866	1,162,302
Brown.....	68	711	595,647
Butler.....	109	1,052	1,976,099
Carroll.....	12		671,736
Champaign.....	76	896	769,006
Clarke.....	94	995	1,394,577
Clermont.....	40	670	670,000
Clinton.....	9	690	1,080,600
Columbiana.....	30	1,273	1,870,468
Coshocton.....	24	616	863,558
Crawford.....		837	605,900
Cuyahoga.....	708	4,582	9,492,822
Darke.....	43	1,360	1,275,603
Defiance.....		781	853,781
Delaware.....	33	757	1,090,638
Erie.....	111	654	856,718
Fairfield.....	33	595	974,083
Fayette.....	25	513	1,335,730
Franklin.....	195	2,011	3,335,621
Fulton.....		628	832,950
Gallia.....	47	621	446,540
Geauga.....	24	464	590,637
Greene.....	26	691	1,052,553
Guernsey.....	20	836	677,053
Hamilton.....	†	4,351	9,960,449
Hancock.....	14	990	1,637,806
Hardin.....		913	1,227,455
Harrison.....	8	430	410,620
Henry.....		433	688,736
Highland.....	16	564	694,075
Hocking.....	17	410	543,103
Holmes.....	5	522	744,985
Huron.....	112	966	1,279,615
Jackson.....	45	500	436,226
Jefferson.....	50	800	619,750
Knox.....	52	924	925,703
Lake.....	34	493	916,649
Lawrence.....	74	611	481,437
Licking.....	42	664	1,108,218
Logan.....		674	836,481
Lorain.....	64	1,063	1,229,448
Lucas.....	331	1,921	3,311,006
Madison.....	50	486	980,008

TABLE SHOWING THE NUMBER OF "ONE DOLLAR CONSIDERATION SALES," ETC.—Continued.

Counties.	Number of deeds recorded for all one dollar consid- eration sales.	Total number of deeds re- corded.	Total consideration.
Mahoning	63	907	1,256,072
Marion	153	780	1,049,913
Medina	104	699	832,800
Meigs	12	880	450,678
Mercer .....	.....	528	510,453
Miami .....	.....	1,369	728,298
Monroe	9	601	563,641
Montgomery	124	1,404	2,606,455
Morgan	13	534	554,664
Morrow	7	595	1,490,320
Muskingum	113	910	1,178,108
Noble .....	.....	398	490,531
Ottawa	37	614	625,991
Paulding	34	735	566,354
Perry	30	654	1,297,307
Pickaway	44	567	925,621
Pike	17	364	256,986
Portage	15	907	1,174,295
Preble	37	683	821,366
Putnam	42	778	705,196
Richland	15	955	2,273,455
Ross .....	.....	775	1,437,270
Sandusky .....	.....	834	764,692
Scioto	49	762	717,123
Seneca	23	1,069	2,577,009
Shelby	15	616	734,179
Stark	75	1,668	3,192,464
Summit	68	992	1,485,296
Trumbull	125	1,095	1,259,297
Tuscarawas	39	1,092	1,634,635
Union	45	821	1,065,223
Van Wert	4	638	484,562
Vinton	18	486	413,841
Warren	42	684	1,106,919
Washington .....	.....	893	531,587
Wayne	36	967	1,699,077
Williams .....	.....	607	716,054
Wood	32	1,285	1,376,522
Wyandot	23	874	1,540,421
Totals	\$4,288	\$77,889	\$110,624,309

* Total number not reported.

† Not reported.

TABLE EXHIBITING THE NUMBER OF ACRES CONVEYED, AND TOTAL CONSIDERATION IN EACH COUNTY OF OHIO, FOR SALES OF LANDS, AS REPORTED BY COUNTY RECORDERS FOR THE YEAR ENDING JUNE 30, 1878.*

Counties.	Sales of lands.			Sales of town acres, or lands within corporate limits, valued by the acre.		
	Number of acres.	Average price per acre.	Amount of consideration.	Number of acres.	Average price per acre.	Amount of consideration.
Adams.....	55,680	\$10	\$556,800			
Allen.....	17,264	29	500,650	108	\$64	\$6,912
Ashtabula.....	16,503	53	874,513			
Ashtabula.....	34,520	30	1,005,600			
Athens.....	27,810	23	639,630			
Auglaize.....	8,160	38	310,080	91	93	8,463
Belmont.....	12,612	43	546,869	†	†	243,818
Brown.....	18,069	28	509,790			
Butler.....	16,889	73	1,217,065			
Carroll.....	13,530	41	555,919	2	100	200
Champaign.....	14,028	54	768,930			
Clarke.....	11,869	58	692,021	92	552	50,958
Clermont.....	15,000	30	450,000			
Clinton.....	19,500	40	780,000	1,000	100	100,000
Columbiana.....	21,462	48	1,025,970	93	342	31,787
Coshocton.....	24,641	30	748,861			
Crawford.....	4,700	77	361,900	20	200	4,000
Cuyahoga.....	13,270	72	952,744	1,062	935	992,756
Darke.....	28,540	37	1,068,412			
Defiance.....	28,521	20	576,240			
Delaware.....	15,755	50	789,688			
Erie.....	6,343	78	493,883	145	346	40,160
Fairfield.....	17,304	41	720,829	5	1,200	6,000
Fayette.....	24,205	43	1,046,072	6	867	5,200
Franklin.....	15,809	66	1,038,738			
Fulton.....	22,500	35	787,500	3	150	450
Gallia.....	17,575	18	323,297	65	171	11,123
Geauga.....	14,340	40	569,347	30	227	6,810
Greene.....	16,831	42	702,694	43	3,736	160,648
Guernsey.....	21,565	26	550,504			
Hamilton.....	11,961	86	1,031,888	1,098	903	991,261
Hancock.....	30,940	37	1,138,171	28	1,309	36,661
Hardin.....	34,855	25	870,375			
Harrison.....	7,872	43	340,621	84	525	44,100
Henry.....	22,056	31	683,736			
Highland.....	16,890	34	567,560			
Hocking.....	20,642	24	505,497	6	503	3,020
Holmes.....	22,500	35	742,000	14	70	980
Huron.....	17,840	48	860,224	72	657	47,273
Jackson.....	15,877	15	245,225			
Jefferson.....	15,500	35	531,750			
Knox.....	13,020	54	701,245			
Lake.....	9,978	55	545,831	172	335	57,660
Lawrence.....	14,400	16	228,000			
Licking.....	19,561	56	1,095,416	20	300	6,000
Logan.....	17,757	40	704,350			
Lorain.....	7,529	\$ 95	719,219			
Lucas.....	10,576	60	631,791	75	1,152	86,417
Madison.....	17,512	49	863,632	97	465	45,146
Mahoning.....	12,331	46	554,969	183	570	236,448
Marion.....	16,738	45	755,771	82	679	55,645
Medina.....	20,875	38	792,250	45	†	†

TABLE EXHIBITING THE NUMBER OF ACRES CONVEYED, ETC.—Continued.

Counties.	Sales of lands.			Sales of town acres, or lands within corporate limits, valued by the acre.		
	Number of acres.	Average price per acre.	Amount of consideration.	Number of acres.	Average price per acre.	Amount of consideration.
Meigs	6,125	\$24	\$147,795	150	\$360	\$54,000
Mercer	28,869	17	488,480			
Miami	13,457	54	728,298			
Monroe	21,224	23	484,945	69	250	17,256
Montgomery	18,570	63	1,162,603	32	1,831	59,616
Morgan	18,970	26	490,940			
Morrow	15,908	58	916,581			
Muskingum	24,865	31	750,270	100	278	27,800
Noble	14,754	30	436,810			
Ottawa	14,475	33	479,447	33	155	5,115
Paulding	61,926	9	557,334	82	110	9,020
Perry	48,896	23	1,135,062	68	444	30,217
Pickaway	15,844	48	766,959	45	516	23,262
Pike	21,052	11	227,187			
Portage	17,400	53	915,440	55	410	22,566
Preble	19,087	34	655,575			
Putnam	14,486	33	478,032	†	†	26,427
Richland	32,240	56	1,805,440	60	300	18,000
Ross	48,700	25	1,212,630			
Sandusky	10,286	62	634,162	31	150	4,650
Scioto	41,614	\$ 6	229,360			
Seneca	34,639	62	2,154,937	24	226	5,414
Shelby	18,983	30	569,747	17	324	5,511
Stark	25,973	70	1,826,610	15	500	7,500
Summit	16,215	58	948,372	92	1,124	103,450
Trumbull	21,449	38	835,324	252	60	15,262
Tuscarawas	31,261	38	1,187,918	312	305	95,160
Union	24,018	38	906,323	15	814	12,212
Van Wert	14,123	27	386,127	30	228	6,830
Vinton	25,752	14	364,007			
Warren	19,206	46	897,598	7	898	6,713
Washington	28,959	19	531,587			
Wayne	21,270	61	1,303,730			
Williams	13,574	38	514,472	265	126	33,440
Wood	21,346	48	1,024,508	120	115	13,800
Wyandot	40,424	33	1,313,780	117	188	21,938
Totals	1,816,675		\$65,744,687	6,732		\$3,904,055

NOTE.—To make this table more convenient for comparisons, all fractional parts of dollars and acres have been omitted, hence the apparent difference, in some instances, between the total number of acres, average price per acre, and the total consideration.

* Fractional parts of acres and dollars omitted.

† Number of acres not reported.

‡ Average price per acre not reported.

§ Probably erroneous, either in average or total consideration.

¶ Amount not reported.

TABLE SHOWING THE NUMBER OF DEEDS RECORDED IN EACH COUNTY FOR SALES OF CITY, TOWN, AND VILLAGE LOTS, WITH TOTAL CONSIDERATION, ALSO THE NUMBER OF COMPLICATED CONVEYANCES IN EACH COUNTY, WITH TOTAL CONSIDERATION, AS REPORTED BY COUNTY RECORDERS, FOR THE YEAR ENDING JUNE 30, 1878.*

Counties.	Sales of city, town, and village lots.		Complicated conveyances.	
	Number of deeds.	Total consideration.	Number of deeds.	Total consideration.
Adams	142	\$79,310	.....	.....
Allen	365	344,808	.....	.....
Ashland	233	285,571	.....	.....
Ashtabula	434	336,350	.....	.....
Athens	93	39,990	2	†
Anglaize	433	†	.....	.....
Belmont	369	371,578	.....	.....
Brown	199	85,857	.....	.....
Butler	535	758,925	.....	.....
Carroll	160	74,528	57	\$41,076
Champaign	396	†	59	†
Clarke	511	651,504	31	†
Clermont	220	220,000	10	†
Clinton	258	200,000	.....	.....
Columbiana	670	812,710	.....	.....
Coshoceton	160	114,697	.....	.....
Crawford	300	240,000	.....	.....
Cuyahoga	3,452	7,547,322	.....	.....
Darke	300	207,192	11	†
Defiance	177	277,541	.....	.....
Delaware	276	252,450	6	48,500
Erie	314	322,675	.....	.....
Fairfield	188	193,221	.....	.....
Fayette	182	284,458	.....	.....
Franklin	1,840	2,296,688	.....	.....
Fulton	135	45,000	.....	.....
Gallia	140	112,073	25	†
Geauga	15	14,540	.....	.....
Greene	241	189,185	.....	.....
Guernsey	207	126,529	.....	.....
Hamilton	3,550	7,936,236	.....	.....
Hancock	362	462,961	.....	.....
Hardin	399	357,080	.....	.....
Harrison	63	43,391	5	12,500
Henry	50	5,000	.....	.....
Highland	103	124,499	.....	.....
Hocking	71	34,569	.....	.....
Holmes	60	6,000	.....	.....
Huron	404	372,118	.....	.....
Jackson	159	106,956	18	84,000
Jefferson	350	81,250	.....	.....
Knox	265	224,406	.....	.....
Lake	161	277,456	.....	.....
Lawrence	205	216,499	16	36,864
Licking	11	6,000	.....	.....
Logan	209	132,131	.....	.....
Lorain	477	510,229	.....	.....
Lucas	1,245	2,319,794	26	272,673
Madison	144	71,230	.....	.....
Mahoning	440	236,448	.....	.....
Marion	261	237,480	9	864
Mecina	40	40,446	.....	.....
Meigs	525	243,271	3	5,600

TABLE SHOWING THE NUMBER OF DEEDS RECORDED IN EACH COUNTY FOR SALES OF CITY, TOWN, AND VILLAGE LOTS, ETC.—Continued.

Counties.	Sales of city, town, and village lots.		Complicated conveyances.	
	Number of deeds.	Total consideration.	Number of deeds.	Total consideration.
Mercer	211	\$21,974		
Miami	850	†	43	†
Monroe	103	62,231		
Montgomery	872	1,385,237		
Morgan	128	63,495	12	\$230
Morrow	140	573,739		
Muskingum	360	400,038		
Noble	108	53,721		
Ottawa	263	141,392		
Paulding	48	†		
Perry	231	108,733	7	23,265
Pickaway	135	135,356		
Pike	59	29,782		
Portage	340	236,275		
Preble	276	168,755		
Putnam	226	97,611	28	27,164
Richland	300	450,000		
Ross	288	224,640		
Sandusky	556	125,880		
Scioto	312	487,614	1	100
Seneca	278	382,250	13	34,385
Shelby	183	149,052	13	9,855
Stark	1,010	1,358,354		
Summit	312	418,655	10	14,752
Trumbull	553	379,000	6	29,710
Tuscarawas	311	326,518	50	25,000
Union	237	146,688		
Van Wert	241	91,601		
Vinton	76	46,578	20	3,237
Warren	197	178,966	9	23,600
Washington	223	†		
Wayne	418	395,347		
Williams	282	168,137		
Wood	704	335,622	5	2,560
Wyandot	279	147,533	45	57,147
Totals.....	33,106	\$39,820,926	540	\$753,082

* Fractional parts of a dollar omitted.

† Amount not reported.

TABLE SHOWING THE NUMBER OF MORTGAGES (OTHER THAN RAILROAD MORTGAGES) RECORDED AND CANCELED, WITH AMOUNTS SECURED AND RELEASED IN EACH COUNTY, AS REPORTED BY COUNTY RECORDERS FOR THE YEAR ENDING JUNE 30, 1878.

Counties.	Number of mortgages recorded.	Amount secured.	Number Canceled.	Amount released.
	No.	*Amount.	No.	*Amount.
Adams.....	257	\$276,975	129	\$133,063
Allen.....	367	286,985	270	129,646
Ashland.....	372	488,945	214	327,569
Ashtabula.....	939	732,787	541	506,993
Athens.....	433	247,500	133	71,844
Anglaize.....	456	312,915	398	156,445
Belmont.....	667	690,438	278	244,788
Brown.....	477	334,504	187	208,124
Butler.....	911	1,227,885	†	1,053,663
Carroll.....	317	347,910	188	320,570
Champaign.....	617	697,934	346	391,822
Clarke.....	881	1,001,932	801	932,323
Clermont.....	460	410,000	250	210,000
Clinton.....	387	380,000	150	160,000
Columbiana.....	774	642,243	532	553,899
Coshocton.....	443	413,911	260	377,931
Crawford.....	539	440,400	245	226,100
Cuyahoga.....	2,922	4,276,072	2,754	5,038,010
Darke.....	782	501,936	237	543,327
Defiance.....	398	332,494	180	176,585
Delaware.....	541	555,587	395	436,757
Erie.....	578	560,621	383	453,979
Fairfield.....	440	563,334	112	142,974
Fayette.....	345	620,388	19	27,613
Franklin.....	1,465	2,277,950	1,709	2,469,071
Fulton.....	435	171,375	87	15,930
Gallia.....	300	196,651	188	142,439
Geauga.....	313	290,149	177	183,861
Greene.....	602	723,946	452	995,808
Guernsey.....	286	259,816	167	183,704
Hamilton.....	4,158	7,629,572	2,897	6,059,494
Hancock.....	545	688,988	250	439,084
Hardin.....	608	605,628	273	386,651
Harrison.....	374	389,950	180	262,954
Henry.....	301	295,840	50	65,080
Highland.....	333	329,053	241	280,234
Hocking.....	197	374,029	189	167,932
Holmes.....	337	77,000	225	233,410
Huron.....	755	631,138	472	575,500
Jackson.....	240	168,297	120	115,310
Jederson.....	850	695,000	450	337,500
Knox.....	428	498,229	297	408,462
Lake.....	326	389,392	246	318,384
Lawrence.....	331	265,377	150	115,799
Licking.....	488	264,299	287	84,888
Logan.....	418	407,072	326	365,124
Lorain.....	898	878,226	708	823,163
Lucas.....	1,165	2,259,572	837	1,314,678
Madison.....	365	803,031	172	357,184
Mahoning.....	488	675,065	324	469,954
Marion.....	460	476,499	289	359,804
Medina.....	469	493,639	338	506,324

TABLE SHOWING THE NUMBER OF MORTGAGES, ETC.—Continued.

Counties.	Number of mortgages recorded.	Amount secured.	Number canceled.	Amount released.
	No.	*Amount.	No.	*Amount.
Meigs	325	199,550	140	131,959
Mercer	266	152,737	70	50,140
Miami	893	830,504	412	312,480
Monroe	395	210,398	205	198,152
Montgomery	1,472	2,417,443	1,065	1,798,286
Morgan	237	145,984	151	139,673
Morrow	397	524,595	214	282,463
Muskingum	717	571,397	359	385,073
Noble	285	234,575	151	125,923
Ottawa	314	586,697	246	350,103
Paulding	235	126,095	94	67,676
Perry	310	359,752	147	209,359
Pickaway	449	666,020	301	547,554
Pike	139	107,970	53	28,983
Portage	832	518,984	593	826,516
Preble	435	437,847	190	207,604
Putnam	434	302,072	186	184,965
Richland	639	832,000	278	445,524
Ross	471	617,779	211	303,820
Sandusky	615	360,798	323	253,782
Scioto	585	708,520	301	233,379
Seneca	800	143,538	549	135,025
Shelby	460	395,781	242	245,356
Stark	1,005	1,069,676	830	495,590
Summit	690	801,399	553	836,981
Trumbull	653	653,692	520	446,511
Tuscarawas	618	567,428	411	531,904
Union	407	452,242	110	144,745
Van Wert	255	231,910	259	228,493
Vinton	170	119,856	60	29,405
Warren	539	652,525	360	577,462
Washington	501	312,983	243	211,889
Wayne	699	832,444	379	566,903
Williams	443	322,709	290	233,127
Wood	668	587,117	304	284,626
Wyandot	477	516,263	345	421,452
Totals	92,067	\$58,150,759	32,138	\$43,329,680

* Fractional parts of a dollar omitted.

† Number not reported.

TABLE SHOWING THE SEVERAL AMOUNTS OF RAILROAD MORTGAGES RECORDED AND CANCELED IN OHIO, AS REPORTED BY THE RECORDER OF EACH COUNTY, FOR THE YEAR ENDING JUNE 30, 1878.

Name of railroad.	Mortgages.	Cancellations.
Cincinnati and Portsmouth.....	\$500,000 00	.....
Cincinnati and Eastern	3,286 00	.....
Cincinnati and Eastern, New Richmond Branch	90,000 00	.....
Cincinnati, Hamilton and Dayton .....	.....	1,000,000 00
Cincinnati and Westwood	26,000 00	.....
Cincinnati and Muskingum Valley.....	1,500,000 00	.....
Cleveland, Tuscarawas Valley and Wheeling	2,000,000 00	.....
Cleveland, Canton, Coshocton and Straitsville	800,000 00	.....
Cleveland, Tuscarawas Valley and Wheeling *	79,920 00	.....
Cleveland and Pittsburgh .....	.....	800,000 00
Columbus and Gallipolis	1,500,000 00	.....
Kinsman Street (street railroad)	345,000 00	.....
Marietta and Shawnee	300,000 00	.....
Mt. Adams and Eden Park (incline railway).....	150,000 00	.....
Mansfield, Coldwater and Lake Michigan	500,000 00	.....
Marietta and Cincinnati†.....	7,000,000 00	.....
Pennsylvania Company	7,000,000 00	12,000,000 00
Springfield, Jackson and Pomeroy ‡	1,500,000 00	.....
Sandusky, Mansfield and Newark .....	.....	1,290,000 00
Scioto Valley	2,600,000 00	.....
Toledo, Delphos and Indianapolis	210,350 00	.....
Toledo and Ann Arbor	750,000 00	.....
Wabash	1,026,555 00	.....
Wheeling and Lake Erie (lien)	103,620 00	.....
Waynesville, Port William and Jeffersonville.....	135,000 00	.....
Youngstown and Conotton Valley (N. G.)	750,000 00	.....
Totals	\$28,869,731 00	\$15,090,000 00

* Chattel mortgage.

† Jackson county reports two mortgages on this road amounting to this sum—not reported current year in the other counties through which the road passes.

‡ In Clarke county three mortgages are reported on this road, at a total of \$999,627, in Fayette, Highland, Meigs, and Vinton counties one mortgage of \$900,000 only in each county is reported, and in Vinton county, also, a mechanics' lien of \$175,970.71 is reported.

TABLE SHOWING THE NUMBER OF LEASES RECORDED IN EACH COUNTY FOR THE YEAR ENDING JUNE 30, 1878, AS REPORTED BY COUNTY RECORDERS.

Counties.	Leases of lands.		Leases of city, town, and village lots.	
	Number.	Amount of consideration.*	Number.	Amount of consideration.*
Adams	4	\$1,245		
Allen	9	474	3	\$254
Ashland	6	5,436	7	2,520
Ashtabula	14	3,086		
Athens	4	493		
Auglaize	14	1,035		
Belmont	7	2,500		
Brown	4	190	14	105
Butler	9	21,961	16	24,222
Carroll	25	†		
Champaign	6	1,200	5	6,260
Clarke	6	960	9	5,005
Clermont	30	†		
Clinton	4	10,000		
Columbiana	30	†		
Coshocton	2	250		
Crawford	10	1,015		
Cuyahoga	24	4,290	140	63,282
Darke	7	1,800	5	1,000
Defiance	12	8,535	3	5,700
Delaware	2	1,200	3	5,050
Erie	20	5,950	10	4,500
Fairfield	2	155	4	3,402
Fayette	7	†		
Franklin	15	†	35	†
Fulton	10	†		
Gallia †				
Geauga	14	661		
Greene	8	2,051	10	11,043
Guernsey	6	3,189	1	1
Hamilton	84	28,349	500	297,279
Hancock	4	820	5	7,270
Hardin	14	†	10	†
Harrison †				
Henry	10	†		
Highland	5	650		
Hocking	6	26,409		
Holmes	13	8,500		
Huron	6	†	10	†
Jackson	1	325	2	450
Jefferson	3	1,000		
Knox	5	†	8	13,375
Lake	11	†	2	†
Lawrence	4	†	3	†
Licking	15	4,187	13	732
Logan †				
Lorain	17	7,922	10	6,485
Lucas	6	4,350	22	67,730
Madison	5	7,633	2	†
Mahoning	15	7,340	5	1,170
Marion	5	425	8	7,560

NUMBER OF LEASES RECORDED IN EACH COUNTY—Continued.

Counties.	Leases of lands.		Leases of city, town, and village lots.	
	Number.	Amount of consideration.	Number.	Amount of consideration.
Medina	14	\$200	9	800
Meigs	21	†	9	4,500
Mercer	15	500	—	—
Miami	4	3,000	10	4,217
Monroe	—	—	1	675
Montgomery	10	†	45	†
Morgau	15	1,712	—	—
Morrow	7	314	—	—
Muskingum	9	†	5	†
Noble	7	932	2	223
Ottawa	11	1,985	40	4,032
Paulding	9	†	1	†
Perry	17	1,200	1	300
Pickaway	4	860	4	810
Pike	2	†	—	—
Portage	15	1,056	—	—
Preble	4	891	5	2,730
Putnam	6	†	4	†
Richland	2	†	3	1,099
Ross	5	509	9	3,622
Sandusky	12	†	7	1,332
Scioto	18	5,618	4	8,000
Seneca	—	—	9	1,185
Shelby	10	†	3	†
Stark	20	†	25	†
Summit	27	†	13	†
Trumbull	8	†	3	200
Tuscarawas	20	†	—	—
Union	2	3,300	1	3,900
Van Wert	5	†	3	3,000
Vinton †	—	—	—	—
Warren	3	1,940	4	715
Washington	22	†	6	†
Wayne	7	7,061	8	2,251
Williams	12	†	—	—
Wood	19	772	5	1,950
Wyandot	9	3,350	8	12,553
Totals	911	\$210,836	1,112	\$592,429

* Fractions omitted.

† Amount not reported.

‡ None reported.

AGRICULTURAL
STATISTICS.

AGRICULTURAL STATISTICS.

TABLES SHOWING THE AGRICULTURAL PRODUCTS OF OHIO, AS REPORTED
BY TOWNSHIP ASSESSORS TO COUNTY AUDITORS, IN MAY, 1878.

WHEAT, RYE, AND BUCKWHEAT PRODUCED IN OHIO IN 1877.

Counties.	Wheat.		Rye.		Buckwheat.	
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
Adams.....	14,737	144,526	228	1,497	80	498
Allen.....	19,587	337,718	573	9,335	131	1,844
Ashland.....	30,100	503,342	388	4,511	163	1,554
Ashtabula.....	8,763	135,035	197	2,183	688	6,943
Athens.....	14,438	122,071	334	2,568	266	2,198
Auglaize.....	22,109	337,355	659	7,436	155	1,943
Belmont.....	19,641	231,623	1,131	9,934	333	2,090
Brown.....	22,341	268,412	3,868	29,333	116	1,356
Butler.....	33,900	525,889	831	8,967	250	4,951
Carroll.....	14,750	158,963	962	10,012	311	2,289
Champaign.....	29,683	401,263	288	3,460	139	1,182
Clarke.....	28,129	439,858	1,062	15,649	64	736
Clermont.....	13,762	177,651	1,981	18,048	181	1,724
Clinton.....	17,147	267,617	1,056	13,128	172	1,970
Columbiana.....	20,003	313,770	1,814	21,996	547	5,364
Coshocton.....	24,504	294,718	823	8,301	529	4,601
Crawford.....	25,553	503,473	375	66,219	107	916
Cuyahoga.....	5,551	100,293	1,010	16,318	60	764
Darke.....	35,423	513,105	2,351	36,591	378	4,354
Defiance.....	14,745	228,495	615	11,116	271	3,209
Delaware.....	13,472	208,096	711	7,242	264	2,316
Erie.....	17,464	375,854	187	2,210	464	6,774
Fairfield.....	37,572	544,487	1,787	12,989	133	1,557
Fayette.....	11,864	176,310	1,465	18,751	38	382
Franklin.....	20,324	366,974	1,497	19,507	210	1,960
Fulton.....	19,722	363,795	709	6,792	854	10,590
Gallia.....	25,476	241,481	342	2,726	148	1,031
Geauga.....	4,248	66,185	86	914	104	961
Greene.....	30,011	501,482	860	10,565	23	243
Guernsey.....	13,540	128,478	832	7,552	542	4,046
Hamilton.....	9,584	162,480	3,458	42,431	206	2,319
Hancock.....	31,870	621,615	374	7,818	148	1,477
Hardin.....	18,957	321,873	134	1,957	265	3,067
Harrison.....	11,414	145,823	468	4,604	154	1,037
Henry.....	13,708	202,045	1,444	26,719	260	3,676
Highland.....	29,476	363,166	1,015	9,003	68	449
Hocking.....	9,609	79,943	601	5,227	375	2,588
Holmes.....	25,151	335,753	982	10,445	485	5,968
Huron.....	23,945	442,370	170	2,392	277	3,220
Jackson.....	10,763	73,009	94	544	225	1,882
Jefferson.....	15,897	226,748	712	6,154	148	1,483
Knox.....	24,547	333,476	1,123	11,908	388	2,973
Lake.....	4,956	82,783	489	6,578	252	3,671

WHEAT, RYE, AND BUCKWHEAT PRODUCED IN OHIO—Continued.

Counties.	Wheat.		Rye.		Buckwheat.	
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
Lawrence.....	13,198	124,840	178	1,985	71	627
Licking.....	28,594	433,874	2,005	20,434	669	6,344
Logan.....	27,273	312,379	405	4,046	202	1,556
Lorain.....	14,559	244,126	179	2,336	78	1,161
Lucas.....	8,891	169,092	482	7,030	704	9,948
Madison.....	5,633	67,651	1,112	15,721	43	557
Mahoning.....	11,291	188,153	1,015	10,916	497	5,460
Marion.....	15,155	224,864	161	2,394	71	753
Medina.....	13,140	230,588	356	4,143	130	1,109
Meigs.....	17,718	181,442	773	6,080	246	1,613
Mercer.....	19,615	317,955	896	13,297	225	2,685
Miami.....	32,661	436,093	1,709	14,802	94	845
Monroe.....	13,406	127,639	2,066	18,492	393	3,051
Montgomery.....	33,959	512,788	1,492	20,166	49	555
Morgan.....	13,115	141,965	340	3,044	208	1,581
Morrow.....	11,226	159,435	777	8,329	361	2,526
Muskingum.....	24,796	292,584	1,742	14,004	357	3,160
Noble.....	13,576	123,528	527	4,911	190	1,334
Ottawa.....	10,515	207,677	277	6,029	169	3,022
Paulding.....	4,041	61,043	393	5,462	241	3,036
Perry.....	14,933	166,959	941	8,975	271	2,094
Pickaway.....	28,988	419,155	1,151	12,032	72	851
Pike.....	8,887	96,582	130	671	160	982
Portage.....	13,238	217,927	445	5,307	191	1,882
Preble.....	25,091	344,960	13,21	13,285	120	905
Putnam.....	16,147	320,374	1,584	28,538	164	2,395
Richland.....	30,923	488,641	964	11,301	342	3,682
Ross.....	30,763	421,667	1,674	14,127	92	653
Sandusky.....	34,916	727,140	417	6,658	261	3,544
Scioto.....	9,327	90,630	43	407	133	944
Seneca.....	51,790	1,010,597	171	2,293	71	812
Shelby.....	22,414	277,802	631	5,868	271	2,675
Stark.....	45,638	814,804	529	6,874	161	1,392
Summit.....	22,923	414,826	299	3,509	142	1,668
Trumbull.....	8,287	124,176	482	4,868	745	6,879
Tuscarawas.....	30,108	400,970	1,006	10,392	459	3,497
Union.....	12,145	182,547	209	2,816	156	1,979
Van Wert.....	11,012	197,771	859	14,809	243	2,641
Vinton.....	5,959	48,758	268	2,001	272	2,069
Warren.....	20,537	291,213	640	6,331	298	3,168
Washington.....	23,694	264,681	2,228	20,287	554	4,138
Wayne.....	45,806	740,040	499	5,931	115	1,098
Williams.....	21,174	363,752	191	2,717	226	2,385
Wood.....	18,267	343,575	735	13,312	523	7,750
Wyandot.....	22,399	422,591	222	3,576	140	1,380
Totals.....	1,746,084	27,306,566	74,580	914,106	22,243	225,822

OATS, BARLEY, AND CORN PRODUCED IN OHIO IN 1877.

Counties.	Oats.		Barley.		Corn.	
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
Adams	7,156	112,899	30	545	39,666	1,095,140
Allen	10,839	387,794	80	1,571	37,441	1,397,800
Ashland	16,999	657,118	246	5,472	26,278	1,031,510
Ashtabula	17,959	546,965	64	1,159	14,658	530,100
Athens	2,611	52,518	10	15	23,408	615,300
Auglaize	11,295	371,804	826	26,697	39,975	1,026,500
Belmont	13,732	365,653	209	3,950	29,067	1,144,500
Brown	10,461	167,420	75	1,523	51,494	1,561,500
Butler	9,037	238,088	15,852	484,724	75,794	3,273,000
Carroll	14,578	438,684	32	518	14,974	529,500
Champaign	7,205	245,538	109	3,302	55,585	1,849,200
Clarke	6,169	181,819	471	14,915	46,679	1,704,000
Clermont	11,188	220,468	103	2,572	46,341	1,957,800
Clinton	5,451	143,596	30	657	73,242	2,640,000
Columbiana	19,212	664,075	66	1,385	21,276	805,400
Coshocton	11,397	346,548	4	150	37,002	1,307,000
Crawford	17,202	724,163	209	4,811	31,290	1,154,000
Cuyahoga	13,307	485,683	111	3,227	12,004	500,000
Darke	18,044	627,495	2,666	77,182	71,416	2,011,500
Defiance	11,424	401,993	144	2,584	22,596	613,000
Delaware	7,449	230,512	30	672	39,245	1,240,000
Erie	8,948	327,644	1,791	41,269	19,423	777,000
Fairfield	6,095	180,878	1,291	34,984	57,269	2,100,000
Fayette	1,322	37,319	-----	-----	80,284	2,700,000
Franklin	6,678	217,186	110	2,326	64,237	2,460,000
Fulton	12,498	444,599	26	314	25,357	901,700
Gallia	4,649	82,269	12	151	28,679	657,400
Geauga	9,421	318,891	23	442	6,900	298,400
Greene	4,338	133,688	859	28,081	58,363	2,210,000
Guernsey	9,497	265,173	23	317	22,755	784,200
Hamilton	7,955	170,686	3,280	81,961	46,929	1,595,000
Hancock	10,432	365,533	304	6,303	52,405	1,646,000
Hardin	7,499	265,218	108	2,568	37,725	1,280,000
Harrison	7,570	241,332	42	910	16,329	642,000
Henry	7,693	260,450	258	4,532	25,990	666,000
Highland	7,018	137,934	32	500	63,064	2,013,000
Hocking	3,415	64,307	51	915	18,243	478,400
Holmes	16,936	546,717	100	1,932	25,732	927,000
Huron	19,975	822,856	498	10,205	32,060	1,141,000
Jackson	5,595	90,608	-----	-----	21,860	405,000
Jefferson	10,881	361,314	158	3,267	16,581	603,700
Knox	12,302	406,416	39	946	38,968	1,400,000
Lake	6,097	215,941	842	19,234	7,266	294,900
Lawrence	6,702	107,905	41	1,165	24,268	520,000
Licking	10,873	301,522	76	2,078	54,966	2,079,000
Logan	6,802	187,194	83	1,697	50,795	1,353,000
Lorain	14,458	579,249	889	22,715	18,824	730,600
Lucas	5,945	202,654	395	8,742	15,734	509,700
Madison	1,962	59,255	6	109	66,499	2,308,000
Mahoning	15,049	137,105	94	1,575	15,056	650,000
Marion	11,557	416,919	144	2,796	42,191	1,330,000
Medina	15,296	554,294	61	1,269	16,430	735,000
Meigs	3,552	69,269	141	2,056	20,891	511,000
Mercer	14,922	450,817	283	7,703	34,312	714,100
Miami	11,249	408,444	3,158	85,737	56,348	1,784,000
Monroe	11,668	272,568	38	535	20,613	635,700
Montgomery	15,126	499,114	4,874	158,615	51,035	1,921,700
Morgan	4,217	9,200	18	200	19,224	638,700
Morrow	11,663	480,471	10	324	28,032	917,700

OATS, BARLEY, AND CORN PRODUCED, ETC—Continued.

Counties.	Oats.		Barley.		Corn.	
	Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
Askingum	9,760	254,115	89	1,762	36,627	1,347,498
Ble	7,643	175,579	-----	-----	24,466	876,197
Cawa	3,742	136,606	379	9,669	13,385	525,800
Dlding	4,462	141,559	10	194	13,911	299,036
Ery	4,057	95,528	230	7,775	21,047	696,757
Kaway	2,050	48,802	345	9,195	87,381	2,844,894
E	6,289	91,919	784	24,769	31,710	977,951
Fage	14,455	531,368	43	1,084	13,055	652,994
Gble	14,064	460,488	14,12	45,752	58,002	2,007,644
Hami	7,185	257,226	81	1,687	38,705	1,086,527
Hland	24,551	982,993	333	8,840	31,036	1,063,045
I	3,506	49,172	129	3,031	83,168	2,922,976
Idusky	12,607	449,904	488	9,026	34,618	1,332,255
Oto	6,277	86,456	249	7,388	28,035	871,820
Rca	17,946	626,079	115	2,639	40,554	1,371,497
Ilby	15,940	416,454	1,316	35,196	39,522	804,929
Rk	25,220	985,432	494	10,949	26,837	1,306,366
Rmit	14,822	602,407	94	2,110	15,532	936,295
Rmbull	17,326	657,922	30	560	15,889	827,259
Rcarawas	19,021	652,638	90	1,314	25,596	825,755
Rion	7,268	194,136	61	1,243	48,478	1,487,845
Rn Wert	7,846	258,271	97	2,083	31,355	720,191
Rton	2,707	47,504	-----	-----	16,049	417,960
Rrren	9,829	233,104	6,693	243,897	66,988	2,436,262
Rshington	9,085	194,530	16	135	28,158	791,662
Ryne	26,299	1,039,913	423	8,546	33,208	1,165,468
Rliams	15,994	486,119	38	807	26,720	831,426
Rod	14,800	527,616	568	13,842	52,905	1,653,560
Randot	8,123	339,059	15	480	37,864	1,254,382
Totals	923,444	29,325,611	56,165	1,629,817	3,135,959	101,884,305

COMPARATIVE TABLE, EXHIBITING THE NUMBER OF BUSHEL OF WHEAT AND CORN PRODUCED ANNUALLY, FROM 1850 TO 1877, INCLUSIVE.

Year.	Bushels of wheat.	Average number of bushels to acre.	Bushels of corn.	Average number of bushels to acre.
1850	31,500,000	18.	56,619,608	36.8
1851	25,309,225	15.2	61,171,282	36.7
1852	23,043,737	14.1	58,165,517	33.6
1853	17,118,311	12.	73,436,070	40.
1854	11,889,110	8.	52,171,551	26.
1855	19,569,320	13.81	87,587,434	39.7
1856	15,333,837	10.2	57,802,515	27.7
1857	25,387,614	14.	82,555,186	36.6
1858	17,655,483	10.4	50,863,582	27.7
1859	13,347,967	7.3	68,730,846	29.5
1860	23,640,356	12.8	91,588,704	38.2
1861	20,055,424	11.	74,858,878	33.5
1862	29,764,887	12.	62,764,887	30.
1863	20,452,410	11.36	54,614,617	27.
1864	15,541,385	9.33	54,053,491	27.
1865	13,234,139	9.	68,053,668	35.
1866	5,824,747	4.50	80,386,320	36.50
1867	13,350,726	11.51	63,875,064	29.84
1868	16,480,059	11.31	76,725,288	34.37
1869	26,499,729	15.37	62,443,346	28.36
1870	18,726,341	11.29	88,565,299	37.52
1871	22,274,378	13.27	98,363,060	36.67
1872	18,087,664	11.22	103,053,234	40.89
1873	21,974,385	12.61	84,049,328	35.07
1874	26,896,818	14.51	101,815,494	39.75
1875	17,867,967	9.22	97,825,024	34.08
1876	15,354,569	10.18	112,552,642	36.87
1877	27,306,566	15.63	101,884,305	32.48

NOTE.—The total number of bushels of wheat produced in 1877 exceeds the production of any year subsequent to 1862, and the average number of bushels to the acre is greater than in any year since 1850.

COMPARATIVE TABLE, EXHIBITING THE NUMBER OF BUSHELS OF OATS AND BUCKWHEAT PRODUCED ANNUALLY, FROM 1857-8 TO 1877 INCLUSIVE.

Years.	Oats—total number of bushels.	Average number bushels oats per acre.	Buckwheat—total number of bushels.	Average number bushels buckwheat to acre.
1857.....	26,572,674	.....	.....	.....
1858.....	8,026,251	12.	791,921	11.11
1859.....	15,048,910	23.	3,042,176	20.22
1860.....	25,127,724	30.	763,939	11.43
1861.....	17,798,794	24.	696,623	13.55
1862.....	11,802,170	20.	179,135	8.56
1863.....	11,317,561	20.	200,000	9.80
1864.....	14,579,295	24.	965,679	13.58
1865.....	17,586,664	25.	831,985	24.74
1866.....	21,866,564	28.	1,292,415	12.42
1867.....	18,534,222	24.	590,245	10.19
1868.....	19,058,852	23.	562,256	10.97
1869.....	24,417,799	29.18	223,766	7.70
1870.....	24,819,908	26.88	287,643	11.77
1871.....	32,696,127	32.69	177,938	11.88
1872.....	25,825,742	26.58	266,807	7.65
1873.....	20,094,904	25.37	213,074	10.14
1874.....	19,557,014	22.	240,015	12.04
1875.....	23,434,868	25.33	377,333	12.
1876.....	23,379,489	24.46	222,439	8.37
1877.....	29,325,611	31.75	225,822	10.15

COMPARATIVE TABLE, EXHIBITING THE NUMBER OF BUSHEL OF RYE AND BARLEY PRODUCED ANNUALLY, FROM 1859 TO 1877 INCLUSIVE.

Years.	Rye—total number of bushels.	Average number of bushels rye to acre.	Barley—total number of bushels.	Average number of bushels barley to acre.
1859.....	576,274	.....	.....	.....
1860.....	1,078,764	11.40	1,548,477	21.
1861.....	779,829	11.22	1,255,049	21.
1862.....	823,291	14.34	1,222,041	22.
1863.....	305,969	9.43	1,329,251	18.
1864.....	503,316	10.30	2,337,213	21.25
1865.....	910,518	10.43	2,419,900	17.
1866.....	622,333	7.98	1,353,955	14.
1867.....	1,025,291	9.44	1,604,179	19.
1868.....	815,666	9.30	815,778	20.38
1869.....	852,722	11.28	1,689,416	23.18
1870.....	331,196	9.43	1,502,007	19.00
1871.....	428,014	11.50	1,941,240	23.89
1872.....	295,843	11.75	1,528,266	21.08
1873.....	291,929	10.45	1,074,906	21.55
1874.....	231,435	9.94	1,233,914	26.65
1875.....	415,666	11.31	505,513	12.37
1876.....	442,238	9.35	967,313	19.53
1877.....	914,106	12.21	1,629,817	29.02

TIMOTHY AND CLOVER PRODUCED IN OHIO IN 1877.

Counties.	Timothy.		Clover.			
	Acres.	Tons hay.	Acres.	Tons hay.	Bushels seed.	Acres plowed under for manure.
Adams	9,755	8,660	1,532	384	1,101	133
Allen	14,380	18,162	5,575	5,609	7,755	417
Ashland	23,777	30,727	11,745	8,840	8,609	288
Ashtabula	53,404	69,171	596	765	26	26
Athens	18,996	23,007	325	342	42	18
Auglaize	10,035	14,151	3,883	4,528	5,209	274
Belmont	30,849	38,054	963	978	629	93
Brown	15,337	13,524	4,321	421	69	419
Butler	10,953	13,278	10,497	2,343	916	3,963
Carroll	27,106	32,871	1,500	1,697	738	45
Champaign	13,513	16,020	3,329	2,792	2,681	304
Clarke	14,181	19,779	5,422	3,284	3,696	1,576
Clermont	18,557	24,100	3,324	1,899	27	947
Clinton	12,890	15,007	1,683	922	357	387
Columbiana	38,592	47,828	2,769	3,180	1,143	38
Coshocton	25,584	30,650	2,060	1,668	1,419	136
Crawford	17,637	24,406	10,734	14,061	16,564	358
Cuyahoga	34,364	38,569	196	239	2	47
Darke	1,053	13,684	10,180	5,527	3,711	2,611
Defiance	12,101	15,488	3,952	3,852	4,963	854
Delaware	28,447	39,202	1,838	2,418	2,200	77
Erie	11,152	14,923	2,888	2,641	3,852	369
Fairfield	20,709	23,000	2,584	2,054	2,423	321
Fayette	10,116	10,960	953	213	31	32
Franklin	22,015	30,353	3,303	1,913	728	1,548
Fulton	16,103	19,578	5,327	6,204	4,304	189
Gallia	12,168	12,434	849	303	43	483
Geauga	32,296	34,150	205	283	-----	24
Greene	11,178	14,903	5,795	1,789	1,134	2,372
Guernsey	32,071	40,196	1,042	1,158	392	31
Hamilton	17,717	18,292	3,038	3,142	13	558
Hancock	17,958	24,761	7,072	7,966	9,677	389
Hardin	14,841	20,444	2,730	2,966	3,786	349
Harrison	28,436	36,439	362	314	350	-----
Henry	8,296	9,995	2,437	2,435	2,546	185
Highland	17,184	17,656	1,258	652	493	25
Hocking	12,178	13,071	1,043	780	449	64
Holmes	16,441	20,802	8,146	8,306	7,078	211
Huron	31,116	37,131	5,930	5,461	7,173	349
Jackson	14,710	14,310	188	120	25	50
Jefferson	25,534	30,535	723	685	1,083	5
Knox	27,649	36,349	3,006	2,972	2,838	280
Lake	14,578	17,669	851	1,155	93	144
Lawrence	7,703	6,456	2,802	246	24	286
Licking	37,977	52,017	1,500	1,455	779	46
Logan	15,430	20,967	5,416	4,345	4,929	279
Lorain	41,414	48,130	707	822	562	33
Lucas	10,166	15,338	2,128	2,436	2,515	125
Madison	15,917	21,500	394	291	88	17
Mahoning	34,659	41,313	2,169	2,825	1,305	124
Marion	16,518	22,018	5,187	6,211	6,403	120
Medina	34,127	38,239	3,447	3,785	3,601	203
Meigs	15,966	18,213	720	562	66	186
Mercer	11,071	15,426	4,764	5,372	6,935	242
Miami	8,145	10,963	8,527	4,496	3,045	3,306

TIMOTHY AND CLOVER—Continued.

Counties.	Timothy.		Clover.			
	Acres.	Tons hay.	Acres.	Tons hay.	Bushels seed.	Acres plowed under for manure.
Monroe.....	19,576	20,306	730	704	763	344
Montgomery.....	10,793	14,450	14,551	8,547	4,924	4,906
Morgan.....	19,130	24,049	1,321	1,027	722	148
Morrow.....	29,838	38,994	2,579	3,719	2,738	5
Muskingum.....	38,016	47,814	1,938	1,927	536	61
Noble.....	21,852	28,787	500	379	109	27
Ottawa.....	7,911	10,012	1,866	2,755	2,766	95
Paulding.....	5,966	16,735	884	873	628	195
Perry.....	20,258	38,806	603	624	540	36
Pickaway.....	10,100	12,218	2,048	789	894	112
Pike.....	6,745	5,755	719	180	30	144
Portage.....	38,014	42,766	1,503	1,988	1,069	136
Preble.....	7,994	10,117	9,183	3,673	3,276	1,541
Putnam.....	12,463	15,651	3,049	3,370	3,214	218
Richland.....	23,092	37,641	12,293	10,307	12,065	925
Ross.....	11,342	10,699	3,106	1,062	909	558
Sandusky.....	10,985	14,017	8,791	10,148	8,626	354
Scioto.....	10,029	9,075	596	238	7	151
Seneca.....	20,068	23,396	14,324	13,924	15,851	1,507
Shelby.....	9,436	10,768	4,601	3,488	3,594	539
Stark.....	30,736	39,659	11,112	12,896	5,635	1,168
Summit.....	27,308	34,755	4,685	4,245	1,826	790
Trumbull.....	59,129	67,729	810	969	152	24
Tuscarawas.....	32,011	40,423	7,096	6,683	5,758	524
Union.....	20,595	28,953	1,421	1,823	757	39
Van Wert.....	10,754	15,303	2,113	2,320	2,186	344
Vinton.....	11,034	11,085	226	81	14	31
Warren.....	13,138	15,619	6,552	1,542	338	1,873
Washington.....	26,239	31,400	1,343	1,130	392	237
Wayne.....	29,985	40,742	13,730	15,352	10,124	836
Williams.....	16,413	19,528	7,442	6,926	6,930	238
Wood.....	16,146	20,638	4,455	5,002	6,264	381
Wyandot.....	17,507	22,577	4,892	5,387	6,557	450
Totals.....	1,739,813	2,160,334	334,877	286,265	251,924	44,891

COMPARATIVE TABLE OF TIMOTHY AND CLOVER.

Year.	Timothy.			Clover.				
	Number of acres.	Tons of hay.	Average yield per acre.	Number of acres.	Tons of hay.	Bushels of seed.	Average yield of clover hay per acre.	No. of acres ploughed under.
1858	1,357,874	1,806,461	1.33	.....	.....	.....	.....	.....
1859	1,340,672	1,806,055	1.02	.....	.....	.....	.....	.....
1860	1,538,562	2,027,160	1.33	.....	.....	.....	.....	.....
1861	1,461,418	1,708,201	1.16	.....	.....	.....	.....	.....
1862	1,570,252	2,067,220	1.32	.....	.....	.....	.....	.....
1863	1,195,560	1,005,489	.90	403,884	301,475	151,606	.74	.....
1864	1,252,471	1,204,921	.95	346,457	269,670	165,837	.77	27,398
1865	1,420,191	1,852,303	1.32	390,991	359,856	217,391	.92	33,675
1866	1,410,081	1,839,504	1.30	251,941	159,671	62,200	.61	30,199
1867	1,586,704	1,933,405	1.25	313,520	286,837	147,846	.91	26,811
1868	1,532,342	1,743,537	1.13	942,391	254,895	47,635	.27	32,689
1869	1,488,581	1,784,947	1.19	401,629	360,268	98,570	.89	36,648
1870	1,390,522	1,554,622	1.11	340,440	401,398	367,069	1.17	34,692
1871	1,377,876	1,528,806	1.10	450,099	401,415	384,974	.89	46,998
1872	1,322,387	1,270,779	.96	549,557	493,171	308,903	.89	51,552
1873	1,315,157	1,302,164	.99	651,158	568,048	205,944	.87	64,089
1874	1,310,837	1,145,999	.83	502,268	362,386	194,066	.72	40,277
1875	1,434,174	1,477,966	1.03	222,748	249,726	66,057	1.12	28,965
1876	1,541,015	1,799,908	1.16	467,599	447,417	157,459	.91	46,617
1877	1,739,813	2,160,334	1.24	334,877	286,265	251,984	.85	44,891

NOTE.—In 1877 the number of acres in timothy exceeds the acreage reported in any previous year in Ohio.

FLAX AND POTATOES PRODUCED IN OHIO IN 1877.

Counties.	Flax.			Potatoes.		Sweet potatoes.	
	Acres.	Bushels seed.	Pounds fiber.	Acres.	Bushels.	Acres.	Bushels.
Adams	1	.....	85	609	42,729	50	2,275
Allen	1,332	11,035	297,890	937	105,214	8	595
Ashland	1,139	11,537	555,666	1,141	103,618	8	514
Ashtabula	5	55	8,000	4,038	403,508	.....	.....
Athens	.....	.....	.....	1,177	73,145	33	1,222
Anglaize	708	5,431	34,007	1,329	75,980	9	104
Belmont	4	2	50	1,324	147,359	9	944
Brown	794	235	50	1,846	98,233	29	1,692
Butler	682	4,333	2,000	1,778	154,375	57	4,951
Carroll	64	85	80	593	63,509	34	235
Champaign	618	4,593	.....	672	55,977	17	1,525
Clarke	1,386	12,443	386,240	1,285	110,440	40	4,078
Clermont	1234	761	20	6,121	22,510	60	3,679
Clinton	657	4,188	62,600	1,457	84,053	48	2,485
Columbiana	229	2,629	81,122	1,574	143,758	44	165
Coshocton	4	15	.....	990	99,555	3	189
Crawford	368	3,127	.....	1,286	121,465	84	342
Cuyahoga	9	100	.....	3,512	305,909	24	546
Darke	2,481	21,270	55,850	1,659	114,264	38	2,229
Defiance	60	214	.....	982	106,855	24	198
Delaware	681	6,567	125,533	994	83,705	2	110
Erie	5	39	.....	2,008	215,204	24	414
Fairfield	2	10	.....	1,613	125,511	71	5,247
Fayette	40	352	8,000	510	44,685	18	1,408
Franklin	11	80	.....	2,029	161,048	11	885
Fulton	209	919	.....	1,345	138,886	16	1,116
Gallia	.....	.....	.....	1,755	140,411	24	1,412
Geauga	144	1,400	84,402	2,189	187,629	.....	.....
Greene	1,697	23,157	860,247	1,081	82,564	50	3,141
Guernsey	.....	.....	.....	653	55,561	13	739
Hamilton	.....	.....	.....	5,359	388,842	120	8,607
Hancock	2,385	20,361	240,900	1,258	124,634	134	573
Hardin	7624	6,681	44,415	1,032	103,127	1	129
Harrison	14	2	47	471	51,665	24	302
Henry	6	33	.....	1,286	124,655	24	245
Highland	1	102	.....	1,128	82,911	26	1,702
Hocking	34	18	120	1,066	67,637	64	3,685
Holmes	5	27	.....	902	90,053	5	480
Huron	252	2,140	17,800	1,260	121,713	4	622
Jackson	1	1	.....	720	50,163	54	514
Jefferson	1	2	.....	660	76,782	2	55
Knox	1,667	12,852	59,263	1,023	86,367	11	499
Lake	5	60	.....	3,201	271,037	.....	.....
Lawrence	30	3	.....	951	55,288	43	3,374
Licking	106	1,083	.....	1,681	135,138	54	374
Logan	246	1,845	8,002	681	47,782	154	833
Lorain	80	851	11,560	1,681	164,542	19	1,600
Lucas	224	560	.....	2,181	198,006	44	92
Madison	46	376	70	594	44,119	14	75
Mahoning	791	8,211	547,275	1,316	130,671	7	702
Marion	318	3,161	27,813	835	65,242	54	274
Medina	1,030	11,810	372,840	1,121	110,275	8	231
Meigs	1	.....	200	2,136	134,590	27	2,545
Mercer	1,458	9,306	.....	706	50,238	4	81
Miami	4,807	38,304	367,280	1,106	81,555	63	3,265
Monroe	.....	.....	.....	1,150	87,296	5	363
Montgomery	2,325	19,086	639,060	1,946	130,622	704	6,944

FLAX AND POTATOES—Continued.

Counties.	Flax.			Potatoes.		Sweet potatoes.	
	Acres.	Bushels seed.	Pounds fiber.	Acres.	Bushels.	Acres.	Bushels.
Morgan				720	53,384	39	2,600
Morrow	1,093	8,955		951	22,344	24	82
Muskingum				1,660	138,501	86	7,976
Noble				755	59,072	6	294
Ottawa	1	16	50	680	53,926	10	335
Paulding	92	658		1,608	52,566	4	232
Perry	14	7	15	1,063	81,964	164	1,334
Pickaway	1	15		952	70,797	52	2,758
Pike				987	64,319	9	753
Portage	364	4,383	389,068	3,540	295,206		
Preble	4,587	38,958		1,004	82,135	40	3,060
Putnam	112	1,174		1,374	118,892	114	346
Richland	181	1,860	24,003	1,676	141,550	34	131
Ross				1,312	92,766	22	1,129
Sandusky	8	40		1,852	181,472	74	923
Scioto				1,490	82,082	404	3,6184
Seneca	195	2,000		1,487	152,927	9	361
Shelby	1,633	12,831	14,700	944	51,011	74	356
Stark	130	1,349	97,800	1,870	195,024	10	821
Summit				1,559	134,023	24	170
Trumbull	1,101	12,729	1,175,370	1,998	200,863	4	259
Tuscarawas	13	50	5	1,312	138,420	34	262
Union	264	2,685	386,200	575	49,732	3	327
Van Wert	1,000	6,821	88,403	783	67,479	34	260
Vinton				529	36,512	94	717
Warren	1,222	9,980	88,143	1,304	117,169	48	4,994
Washington				2,635	155,788	108	9,928
Wayne	679	7,477	180,830	1,996	177,898	194	696
Williams	309	2,338		1,005	101,955	124	816
Wood	63	573	50	1,724	166,003	1	110
Wyandot	254	2,715		1,102	101,387	8	384
Totals	42,5414	369,703	7,343,294	127,685	10,504,278	7,252	126,3544

TOBACCO PRODUCED IN OHIO IN 1877.

Counties.	Tobacco.		Counties.	Tobacco.	
	Acres planted.	Pounds produced.		Acres planted.	Pounds produced.
Adams	320	235,737	Licking	2	995
Allen	7	2,745	Logan	2½	1,130
Ashland	1½	145	Lorain	6	975
Ashtabula	8½	13,250	Lucas	2	1,060
Athens	145½	103,885	Madison	8½	1,325
Auglaize	19	6,000	Mahoning	2½	570
Belmont	1,641½	1,674,321	Marion	4½	1,565
Brown	3,544½	2,844,699	Medina	35	37,188
Butler	285½	284,849	Meigs	5½	4,152
Carroll	1½	1,100	Meicer	5	1,000
Champaign	6	1,420	Miami	296	271,172
Clarke	5¾	62,037	Monroe	2,313	2,088,353
Clermont	2,222½	1,706,620	Montgomery	8,635	6,118,427
Clinton	65½	80,585	Morgan	600	395,591
Columbiana	2½	2,500	Morrow	5½	1,010
Coshocton	6	2,260	Muskingum	7	2,506
Crawford	3½	1,461	Noble	2,780	2,388,450
Cuyahoga	1-16	150	Ottawa	6	943
Darke	793	836,296	Paulding	16	21,029
Defiance	65½	41,410	Perry	35½	22,790
Delaware	3	1,725	Pickaway	9	635
Erie	½	300	Pike	14	8,257
Fairfield	2	390	Portage	6	1,032
Fayette	3	60	Preble	1,007	1,083,777
Franklin	6	525	Putnam	1	950
Fulton	1½	850	Richland	4	581
Gallia	156	81,386	Ross	15	5,946
Geauga	301½	312,420	Sandusky	1½	160
Greene	895	738,532	Scioto	8½	5,518
Guernsey	7	6,115	Seneca	1	155
Hamilton	4½	376	Shelby	46	139,720
Hancock	15½	3,934	Stark	4½	6,259
Hardin	27½	20,620	Summit	1	200
Harrison	7	5,086	Trumbull	9½	1,570
Henry	41½	31,127	Tuscarawas	1½	600
Hocking	22	11,853	Union	4½	1,190
Holmes	1½	530	Van Wert	3	2,240
Huron	5½	2,867	Vinton	91	77,025
Jackson	12	12,700	Warren	775	863,199
Jefferson	130	79,291	Washington	1,687	1,355,889
Knox	3	2,350	Wayne	75	84,740
Lake	12	12,700	Williams	½	25
Lawrence	130	79,291	Wood	6½	860
			Wyandot .....	.....	.....
			Totals	29,407½	24,214,950

COMPARATIVE TABLE SHOWING THE AMOUNT OF TOBACCO PRODUCED IN FOURTEEN YEARS.

Years.	Acres.	Pounds.	Average No. pounds per acre.	Years.	Acres.	Pounds.	Average No. pounds per acre.
1863	47,260	37,022,323	783	1871	28,862	36,177,630	1,253
1864	21,343	17,057,012	799	1872	46,227	34,900,906	755
1865	22,397	14,107,823	650	1873	43,850	39,572,558	902
1866	23,281	22,188,693	970	1874	12,439	9,245,524	743
1867	15,788	10,790,575	683	1875	34,035	19,814,638	582
1868	18,035	17,398,198	964	1876	31,477	26,633,467	846
1869	20,251	15,943,116	787	1877	29,407½	24,214,950	823
1870	20,484	21,056,729	1,027				

SORGHUM, MAPLE SUGAR AND SYRUP, NUMBER OF HIVES OF BEES, AND AMOUNT OF HONEY PRODUCED IN OHIO IN 1877.

Counties.	Sorghum.			Maple sugar and syrup.		Bees and honey.	
	Acres planted.	Pounds sugar.	Gallons syrup.	Pounds sugar.	Gallons syrup.	Number hives.	Pounds honey.
Adams	369	.....	30,172	768	861	1,404	11,806
Allen	120	10	9,922	4,144	2,253	1,527	22,094
Ashland	108	8	613	48,168	11,872	1,835	19,624
Ashtabula	1	.....	293	160,104	16,793	569	5,094
Athens	211	254	16,390	1,536	1,096	1,521	21,313
Auglaize	406	.....	19,448	2,879	1,294	1,077	8,165
Belmont	289	358	26,765	411	1,410	3,728	35,609
Brown	331	127	19,850	95	443	1,453	26,194
Butler	148	100	13,528	44	2,911	1,362	26,012
Carroll	106	.....	8,502	930	607	1,586	17,196
Champaign	117	69	9,459	11,629	8,863	1,643	13,587
Clarke	122	.....	11,996	30	262	545	5,385
Clermont	296	38	15,505	117	647	1,602	20,667
Clinton	231	.....	17,496	16,598	6,840	1,487	18,757
Columbiana	60	15	3,989	10,737	8,220	2,226	17,896
Coshocton	216	46	16,985	508	379	2,984	24,921
Crawford	56	24	4,916	5,212	3,407	2,032	12,359
Cuyahoga	16	260	.....	31,037	4,571	934	8,705
Darke	552	168	37,020	1,736	5,614	2,144	17,186
Defiance	183	.....	15,581	1,702	496	1,217	9,008
Delaware	94	77	5,743	13,924	9,871	1,579	25,169
Erie	27	19	2,413	6,355	330	309	7,099
Fairfield	138	.....	11,686	1,504	2,953	3,169	30,382
Fayette	70	.....	5,198	.....	412	1,876	20,041
Franklin	147	10	10,746	263	779	1,808	18,627
Fulton	63	.....	6,892	167	134	1,308	13,466
Gallia	642	.....	41,947	389	103	1,439	17,002
Geauga	.....	.....	.....	382,810	8,280	685	4,721
Greene	89	32	8,434	11,778	5,466	1,852	18,732
Guernsey	401	.....	32,346	291	128	2,536	29,812
Hamilton	44	228	3,762	68	669	1,254	20,873
Hancock	54	309	3,563	10,015	6,191	2,232	22,175
Hardin	128	123	5,858	4,014	1,941	2,665	26,988
Harrison	106	773	12,165	143	732	1,835	22,778
Henry	187	.....	15,722	515	675	1,242	18,322
Highland	247	16	19,429	2,149	1,682	1,426	16,949
Hocking	363	3	21,101	889	305	1,110	11,254
Holmes	49	14	3,933	2,730	788	2,201	18,833
Huron	46	80	3,103	21,806	4,276	1,573	24,225
Jackson	481	64	33,359	300	61	820	7,872
Jefferson	100	776	9,709	606	727	1,882	14,284
Knox	39	41	3,388	14,589	6,337	1,971	19,095
Lake	1	.....	152	32,599	1,239	459	4,146
Lawrence	790	175	57,918	403	15	914	11,143
Licking	129	177	9,507	6,569	6,812	2,667	29,261
Logan	99	7	5,895	228,469	20,251	2,303	20,708
Lorain	26	616	1,909	26,743	3,482	1,111	12,968
Lucas	17	74	1,376	8	3	809	9,123
Madison	53	31	4,296	.....	250	1,884	27,425
Mahoning	16	50	1,858	45,865	19,099	2,078	14,884
Marion	63	30	4,448	2,323	886	2,143	22,506
Medina	.....	.....	.....	87,574	11,933	1,327	21,523
Meigs	488	.....	33,112	844	251	1,235	19,870
Mercer	468	.....	20,671	1,369	380	976	8,366
Miami	208	291	17,368	3,860	6,473	1,369	11,863
Monroe	518	20	35,538	3,479	96	1,462	15,354

SORGHUM, MAPLE SUGAR AND SYRUP, NUMBER OF HIVES OF BEES, AND AMOUNT OF HONEY PRODUCED IN OHIO IN 1877—Continued.

Counties.	Sorghum.			Maple sugar and syrup.		Bees and honey.	
	Acres planted.	Pounds sugar.	Gallons syrup.	Pounds sugar.	Gallons syrup.	Number hives.	Pounds honey.
Montgomery	179	.....	20,878	6,227	6,508	1,423	11,801
Morgan	313½	.....	25,776	113	278	1,541	15,735
Morrow	26½	293	2,921	25,487	11,070	1,535	19,158
Muskingum	294	.....	22,429	100	219	2,828	30,262
Noble	516	.....	40,612	460	158	1,412	20,216
Ottawa	82½	178	5,359	10	10	348	7,353
Paulding	232	10	16,150	937	91	1,123	11,351
Perry	179	.....	13,502	5,408	4,006	1,599	15,768
Pickaway	62	44	5,318	693	889	2,689	37,176
Pike	418	.....	27,823	724	414	716	6,447
Portage	2	.....	240	111,836	29,502	1,559	12,603
Preble	326	.....	26,827	3,015	5,500	1,648	19,897
Putnam	202	.....	18,086	2,722	849	1,468	13,023
Richland	29	55	2,816	25,241	11,516	1,724	12,465
Ross	294	56	22,265	1,290	2,666	1,650	18,286
Sandusky	76½	.....	6,255	905	494	1,118	11,107
Scioto	477½	264	35,967	35	75	748	7,377
Seneca	79½	.....	5,823	6,988	3,881	2,139	47,736
Shelby	293	79	18,210	2,021	835	1,543	13,272
Stark	22½	10½	1,875	12,806	7,442	2,245	20,662
Summit	1	.....	63	26,155	4,057	1,367	17,789
Trumbull	21	46	1,090	89,494	14,037	1,560	14,747
Tuscarawas	127	106	10,577	1,969	755	3,267	30,676
Union	86½	.....	7,407	48,534	4,590	1,273	16,386
Van Wert	213	53	15,280	843	95	1,651	14,412
Vinton	318	.....	23,362	2,116	274	766	6,033
Warren	139	84	10,209	9,371	4,022	1,367	19,252
Washington	565	5	41,337	414	575	1,960	20,440
Wayne	35½	370	2,035	14,803	3,386	2,466	18,226
Williams	38½	.....	3,098	7,558	1,432	1,241	7,133
Wood	150	.....	11,754	563	531	2,153	18,128
Wyandot	31	41	1,934	2,122	1,090	1,851	20,508
Totals	16,104½	7,507½	1,180,255	1,625,215	324,036	142,363	1,534,902

TAXABLE LANDS IN OHIO.

Total number of acres of taxable lands in Ohio according to the census report of 1870	25,312,937
Total number of acres of taxable lands on the Grand Duplicate of Ohio in 1878	25,201,743
Total number of acres of taxable lands on the Grand Duplicate of Ohio in 1877	25,446,707
Total number of acres reported by county auditors from the assessors' returns May, 1878	20,965,371½
Total number of acres reported by county auditors from the assessors' returns May, 1877	19,193,759
Total number of acres reported by county auditors from the assessors' returns May, 1876	19,059,067
Total number of acres reported by county auditors from the assessors' returns May, 1875	19,526,715
Total number of acres reported by county auditors from the assessors' returns May, 1874	18,575,239

TAXABLE LANDS IN OHIO AS REPORTED TO COUNTY AUDITORS BY TOWNSHIP ASSESSORS, MAY, 1877.*

Counties.	Cultivated.	Pasture.	Wood.	Uncultivated or waste lands.	Total number of acres.
	No. acres.	No. acres.	No. acres.	No. acres.	
Adams	88,778	61,464	78,073	14,154	244,193
Allen	111,541	21,570	74,960	1,362	205,511
Ashland	125,952	54,073	52,993	1,870	240,351
Ashtabula	107,520	155,176	72,990	3,556	430,466
Athens	75,912	92,705	75,167	5,901	251,411
Auglaize	91,133	18,049	64,811	2,605	164,451
Belmont	85,621	124,345	64,713	10,475	285,154
Brown	113,993½	74,602½	63,149½	15,024½	264,710
Butler	141,949	22,719	36,034	6,827	241,928
Carroll	57,784	80,488	46,811	237	211,995
Chanpaign	124,194	38,444	47,604	1,789	212,331
Clarke	110,196	44,521	36,175	2,719	193,611
Clermont	114,662	43,235	40,536	13,495	217,882
Clinton	10,755	47,349	45,396	2,397	203,023
Columbiana	107,303	100,644	58,518	3,928	269,748
Coshocton	95,875	121,001	82,088	3,111	321,700
Crawford	123,291	35,229	49,494	1,172	209,146
Cuyahoga	77,250	77,806	29,782	2,670	186,508
Darke	190,935	14,578	100,279	9,319	315,111
Defiance	86,793	8,581	76,498	1,473	173,345
Delaware	96,764	93,760	51,300	2,400	244,224
Erie	73,144	22,946	16,289	1,565	116,299
Fairfield	129,278	70,765	58,643	6,920	270,941
Fayette	100,884	72,274	46,886	2,881	219,005
Franklin	118,950	49,513	37,218	4,971	210,654
Fulton	96,413	18,786	62,941	5,093	191,725
Gallia	78,441	72,952	69,232	9,765	234,728
Geauga	61,880	118,784	45,044	2,475	228,376
Greene	118,883	38,567	44,093	6,549	208,042
Guernsey	75,027	137,640	69,732	924	310,746
Hamilton	81,166	22,602	13,840	7,464	114,211
Hancock	150,879½	32,679	96,554½	1,008½	281,122½
Hardin	89,394½	30,746½	67,588½	3,062½	192,553
Harrison	47,419	121,796	43,828	11,998	225,041
Henry	73,691	3,948	58,058	1,902	137,629
Highland	122,871	88,477	65,439	5,225	282,012

TAXABLE LANDS IN OHIO—Continued.

Counties.	Cultivated.	Pasture.	Wood.	Uncultivated or waste lands.	Total Number of acres.
	No. acres.	No. acres.	No. acres.	No. acres.	
Hocking	44,585	75,302	61,131	8,430	189,448
Holmes	100,518½	60,584	61,368½	3,345	225,816
Huron	131,685	74,290	51,440	7,081	264,496
Jackson	58,602	88,693	51,663	20,792	219,750
Jefferson	69,147	93,277	51,220	3,173	218,817
Knox	104,435	155,928	57,919	6,040	324,322
Lake	47,494	40,920	20,400	2,607	111,481
Lawrence	48,558	26,995	54,869	9,776	144,686
Licking	131,758	144,280	76,230	4,107	366,775
Logan	115,349	48,120	63,030	3,273	252,328
Lorain	88,253	110,795	47,561	10,020	256,729
Lucas	58,816	5,839	32,192	2,159	99,153
Madison	90,985	105,842	31,690	4,112	234,619
Maboning	93,638	93,923	53,651	19,245	260,457
Marion	97,595	53,402½	45,774½	2,505	203,310
Medina	88,195	76,705	41,015	1,011	219,187
Meigs	63,827	73,427	70,848	5,250	213,352
Mercer	117,224	11,903	93,583	8,320	231,035
Miami	133,231	11,250	41,781	3,318	189,582
Monroe	79,706	85,684	80,158	5,080	250,646
Montgomery	141,615	21,692	42,843	7,729	223,709
Morgan	57,882	89,231	55,511½	2,518½	219,480
Morrow	84,180	70,558	54,322	175	253,594
Muskingum	114,229	214,156	82,844	3,556	414,778
Noble	68,431	103,322	55,177	3,328	231,782
Ottawa	43,372	12,459	27,923	6,467	95,594
Paulding	36,859	2,557	51,849	1,555	101,451
Perry	60,977	96,035	48,543	1,046	214,564
Pickaway	144,645	95,789	67,975	4,916	312,725
Pike	53,754	39,737	80,138	9,724	183,333
Portage	81,562	110,010	53,743	4,863	250,178
Preble	128,692	27,959	59,017	8,252	231,247
Putnam	103,615	8,177	87,067	5,364	203,999
Richland	120,097	38,745	60,893	4,488	254,575
Ross	167,600	112,000	103,500	37,976	420,476
Sandusky	108,663	11,412	56,714	3,560	193,502
Scioto	58,428½	25,273	76,306½	13,446½	247,590½
Seneca	177,520	44,843	77,272	2,396	302,436
Shelby	110,454	13,541	63,437	2,414	189,846
Stark	150,254	61,852	50,603	6,348	268,107
Summit	103,129	62,552	31,205	7,547	215,243
Trumbull	102,278	154,114	67,691	1,521	358,897
Tuscarawas	97,449	118,245	67,296	9,827	307,609
Union	91,315	67,200	58,954	1,727½	240,630
Van Wert	85,844	5,533	76,146	6,366	173,889
Vinton	45,653	57,079	53,761	12,708	181,809
Warren	117,587	30,659	37,736	7,023	207,611
Washington	106,763	96,942	112,453	16,418	332,581
Wayne	175,877	68,657½	68,621	5,155½	314,640½
Williams	118,890	19,614	71,170	2,249	211,923
Wood	175,931	19,268	121,996	75,390	392,585
Wyandot	113,334	32,609	52,310	2,292	203,106
Totals	8,664,791½	5,603,895½	5,206,342½	586,640½	20,965,371½

* Owing to the defective reports of many township assessors, the totals of each county do not agree with totals in grand duplicate.

NOTE.—For number of acres of taxable lands in each county on grand duplicate, see ante page 432.

DAIRY PRODUCTS, DOMESTIC ANIMALS, WOOL, SHEEP KILLED BY DOGS, Etc.

BUTTER AND CHEESE PRODUCED IN OHIO IN 1877.

Counties.	Butter.	Cheese.
	Pounds.	Pounds.
Adams.....	407,029	260
Allen.....	503,898	2,505
Ashland.....	844,696	484,099
Ashtabula.....	1,094,906	4,550,262
Athens.....	416,142	17,050
Auglaize.....	297,055	100
Belmont.....	750,263	887
Brown.....	535,811	770
Butler.....	600,786	3,760
Carroll.....	590,103	.....
Champaign.....	415,297	74,272
Clarke.....	440,989	1,105
Clermont.....	575,508	100
Clinton.....	393,702	1,534
Columbiana.....	832,110	164,175
Coshocton.....	696,768	300
Crawford.....	649,591	4,420
Cuyahoga.....	785,378	1,174,031
Darke.....	714,036	245
Defiance.....	446,921	117,243
Delaware.....	547,601	5,175
Erie.....	397,629	106,972
Fairfield.....	604,694	50
Fayette.....	242,702	525
Franklin.....	590,284	.....
Fulton.....	554,455	446,868
Gallia.....	424,525	4,141
Geauga.....	831,927	3,898,367
Greene.....	444,178	30
Guernsey.....	712,780	1,380
Hamilton.....	689,964	1,669
Hancock.....	690,450	1,036
Hardin.....	408,008	150
Harrison.....	580,695	178
Henry.....	349,690	.....
Highland.....	492,654	2,019
Hooking.....	329,059	1,475
Holmes.....	583,634	27,770
Huron.....	962,733	553,100
Jackson.....	369,579	750
Jefferson.....	445,710	8,090
Knox.....	660,011	150
Lake.....	382,935	368,125
Lawrence.....	259,620	25
Licking.....	779,047	6,950
Logan.....	447,587	3,479
Lorain.....	833,750	4,438,738
Lucas.....	347,594	8,030
Madison.....	232,043	53,300

BUTTER AND CHEESE—Continued.

Counties.	Butter.	Cheese.
	Pounds.	Pounds.
Mahoning	776,556	93,492
Marion	423,205	1,360
Medina	948,622	1,214,727
Meigs	460,914	17,785
Mercer	406,125	260
Miami	510,581	4,625
Monroe	484,800	300,183
Montgomery	592,567	370
Morgan	485,063	1,410
Morrow	710,152	1,300
Muskingum	958,156	222
Noble	567,658	5,775
Ottawa	203,690	30
Paulding	151,400	100
Perry	516,298	128
Pickaway	368,737	680
Pike	224,938	150
Portage	1,043,542	3,767,783
Preble	525,759	172
Putnam	399,395	60
Richland	821,091	10,686
Ross	324,183	2,034
Sandusky	490,595	700
Scioto	287,537	165
Seneca	747,095	46,000
Shelby	381,962	383
Stark	1,066,253	169,515
Summit	858,329	1,197,064
Trumbull	1,043,915	4,037,355
Tuscarawas	791,961	339,474
Union	431,631	10,570
Van Wert	356,782	840
Vinton	269,421	320
Warren	452,953	2,990
Washington	649,083	13,565
Wayne	1,135,125	63,486
Williams	643,501	94,456
Wood	724,626	160
Wyandot	473,128	30,030
Totals	50,003,162	27,973,055

COMPARATIVE TABLE OF DAIRY PRODUCTS IN OHIO FOR EIGHTEEN YEARS.

Year.	Pounds of butter.	Pounds of cheese.	Year.	Pounds of butter.	Pounds of cheese.
1860	38,440,498	24,816,420	1869	33,783,607	20,520,168
1861	35,492,858	20,637,235	1870	43,020,554	31,381,038
1862	34,065,629	20,752,097	1871	44,994,152	32,391,152
1863	31,121,275	19,130,750	1872	45,413,066	34,403,857
1864	31,141,776	18,097,095	1873	43,533,865	36,668,530
1865	32,450,139	16,947,905	1874	44,335,657	33,123,889
1866	36,344,608	22,197,929	1875	45,838,762	31,824,147
1867	34,833,445	19,865,486	1876	48,415,570	22,358,690
1868	37,605,378	17,814,599	1877	50,003,162	27,973,055

NUMBER AND VALUE OF HORSES, CATTLE, AND MULES IN OHIO IN 1878.

Counties.	Horses.		Cattle.		Mules.	
	Number.	Value.	Number.	Value.	Number.	Value.
Adams	6,313	\$243,401	12,126	\$179,410	389	\$16,610
Allen	8,838	353,655	15,826	172,415	185	7,435
Ashland	8,569	418,650	21,625	323,591	70	4,030
Ashtabula	9,218	445,035	36,045	563,000	73	3,324
Athens	5,420	251,968	14,318	232,904	263	12,325
Auglaize	8,249	342,579	14,168	162,591	324	14,472
Belmont	11,032	512,444	20,931	341,308	444	24,531
Brown	8,532	383,938	13,465	209,511	594	29,152
Butler	11,442	680,147	16,404	357,757	822	53,510
Carroll	4,657	229,713	14,264	209,083	129	5,965
Champaign	10,313	661,252	16,656	354,938	812	22,825
Clarke	9,665	604,615	16,559	391,416	493	36,940
Clermont	8,666	400,345	11,722	196,409	1,095	61,711
Clinton	9,977	515,815	15,498	354,085	613	37,558
Columbiana	8,714	454,690	18,981	375,733	266	8,730
Coshocton	7,814	379,567	19,541	310,734	221	11,375
Crawford	9,128	450,757	19,531	273,341	138	7,315
Cuyahoga	15,275	807,708	20,704	293,327	222	12,185
Darke	13,157	724,198	21,189	293,699	402	29,196
Defiance	5,870	242,206	13,963	136,975	127	5,310
Delaware	8,091	467,336	17,743	342,003	146	7,270
Erie	5,975	266,104	9,082	137,253	53	2,017
Fairfield	9,797	573,483	22,436	423,802	177	10,183
Fayette	8,989	436,398	16,349	412,090	560	34,044
Franklin	15,205	829,469	21,066	481,963	429	26,868
Fulton	6,770	262,267	14,394	164,554	129	5,394
Gallia	5,825	260,569	14,870	201,160	556	29,036
Geauga	5,432	249,089	14,493	413,937	58	2,840
Greene	10,988	661,886	17,240	350,487	484	30,614
Guernsey	6,576	246,797	17,689	200,622	143	5,132
Hamilton	19,338	1,037,540	23,959	542,963	2,027	122,943
Hancock	11,060	426,960	21,731	269,186	206	10,265
Hardin	8,076	276,436	15,101	177,711	291	10,300
Harrison	4,921	261,237	13,211	240,200	111	5,560
Henry	5,534	205,782	10,088	89,731	130	5,715
Highland	10,400	480,788	20,221	408,445	732	41,164
Hocking	4,560	199,079	10,616	149,946	229	13,431
Holmes	6,786	299,184	17,215	214,607	93	3,868
Huron	10,297	478,565	24,725	429,596	111	5,313
Jackson	4,258	156,902	15,301	189,013	449	20,806
Jefferson	5,552	269,444	12,907	214,857	110	5,960
Knox	9,413	452,142	19,944	298,235	164	8,800
Lake	4,159	224,754	10,272	179,821	50	2,700
Lawrence	4,435	224,685	11,984	178,603	845	56,036
Licking	11,903	660,048	25,512	527,683	178	11,371
Logan	9,442	485,036	17,099	279,912	335	19,565
Lorain	10,286	464,096	31,477	585,205	88	4,426
Lucas	6,805	275,941	9,836	124,856	159	6,515
Madison	8,262	421,272	20,425	550,096	418	23,169
Mahoning	7,331	374,165	18,586	363,629	176	8,295
Marion	7,527	438,808	15,903	297,012	172	10,442
Medina	7,942	373,730	23,482	393,949	63	3,040
Meigs	5,364	237,184	14,059	198,539	548	26,717
Mercer	7,824	274,716	13,794	135,679	214	7,760
Miami	10,266	605,781	14,482	263,614	399	30,368
Monroe	5,712	221,491	16,614	204,521	380	15,037
Montgomery	13,437	809,182	18,730	300,920	353	23,089
Morgan	6,040	307,450	15,477	249,436	165	9,370

NUMBER AND VALUE OF HORSES, CATTLE, AND MULES IN OHIO IN 1878—Continued.

Counties.	Horses.		Cattle.		Mules.	
	Number.	Value.	Number.	Value.	Number.	Value.
Morrow	7,543	\$431,169	16,402	\$298,003	90	\$4,945
Muskingum	11,120	536,729	29,763	499,541	278	14,120
Noble	5,336	234,858	15,831	208,070	156	6,777
Ottawa	4,857	206,975	7,202	92,940	47	2,250
Paulding	3,643	128,510	6,621	68,716	135	4,605
Perry	5,500	245,528	15,632	212,492	231	13,072
Pickaway	10,505	558,008	18,953	411,565	478	26,430
Pike	5,041	257,358	8,956	170,245	478	29,650
Portage	7,886	429,086	29,965	583,779	75	3,745
Preble	9,230	626,447	15,515	279,250	362	27,626
Putnam	7,395	293,291	14,976	152,936	300	13,072
Richland	9,930	512,284	29,501	349,440	214	12,632
Ross	11,505	633,269	21,746	494,834	673	43,525
Sandusky	9,822	357,667	15,439	186,264	147	6,145
Scioto	5,152	256,883	12,048	201,879	869	52,680
Seneca	11,604	518,375	20,537	218,126	161	6,880
Shelby	8,425	441,588	11,975	177,545	192	12,025
Stark	12,996	707,429	29,876	467,965	265	14,790
Summit	8,579	503,143	24,139	451,077	178	9,674
Trumbull	9,870	458,578	38,375	722,282	247	11,465
Tuscarawas	8,861	380,976	25,164	309,367	208	8,377
Union	8,723	527,815	14,103	286,353	200	10,806
Van Wert	7,014	296,326	13,178	142,023	298	13,730
Vinton	3,278	140,361	10,925	147,929	320	16,274
Warren	9,752	574,845	13,802	299,726	508	34,773
Washington	8,254	379,248	20,633	306,343	260	14,563
Wayne	10,665	620,067	29,434	447,495	217	12,398
Williams	7,766	316,019	16,002	173,902	143	6,329
Wood	10,471	410,139	16,975	184,919	272	11,570
Wyandot	8,134	372,607	14,611	208,784	134	6,425
Totals	740,200	\$36,771,500	1,568,878	\$25,794,802	27,304	\$1,522,226

NUMBER AND VALUE OF HOGS AND SHEEP IN OHIO IN 1878.

Counties.	Hogs.		Sheep.	
	Number.	Value.	Number.	Value.
Adams	27,912	\$51,991	11,067	\$23,27
Allen	40,914	59,961	21,924	33,233
Ashland	29,558	56,767	52,023	101,641
Ashtabula	7,646	18,132	24,306	52,536
Athens	16,510	31,353	59,729	143,440
Auglaize	29,425	40,265	13,454	26,673
Belmont	29,594	72,755	128,886	320,748
Brown	35,108	81,602	12,795	26,875
Butler	52,706	196,020	9,048	28,302
Carroll	10,913	22,303	119,395	247,217
Champaign	40,660	166,778	31,296	92,229
Clarke	32,026	97,718	46,375	128,073
Clermont	34,599	82,681	8,661	20,970
Clinton	45,974	147,239	25,637	58,002
Columbiana	15,545	40,551	121,804	285,948
Coshocton	26,367	59,534	110,194	236,174
Crawford	35,579	83,928	52,514	118,927
Cuyahoga	7,181	21,164	18,737	43,547
Darke	51,605	110,894	7,787	18,967
Defiance	14,688	26,871	11,672	18,759
Delaware	31,898	80,187	101,698	215,805
Erie	9,935	18,312	22,558	43,269
Fairfield	43,297	107,367	26,865	58,112
Fayette	50,619	158,311	20,770	49,876
Franklin	52,238	143,277	33,174	84,951
Fulton	19,136	29,512	27,700	34,648
Gallia	20,703	34,307	12,558	24,853
Geauga	4,193	10,781	10,641	55,433
Greene	49,306	149,214	24,244	63,804
Guernsey	14,906	26,701	146,060	295,189
Hamilton	31,931	100,484	5,346	13,153
Hancock	47,595	71,416	37,004	66,521
Hardin	31,492	45,351	34,873	57,174
Harrison	10,390	28,023	176,402	427,621
Henry	13,000	19,137	8,932	9,493
Highland	59,751	148,451	17,394	39,743
Hocking	13,453	25,898	27,700	56,494
Holmes	28,740	48,124	39,476	82,564
Huron	19,661	41,588	60,643	95,560
Jackson	16,540	21,902	10,906	13,496
Jefferson	11,560	31,875	117,383	252,059
Knox	33,762	60,549	131,120	207,757
Lake	3,609	12,035	17,612	36,265
Lawrence	19,639	34,010	5,688	8,846
Licking	38,761	97,393	206,544	461,126
Logan	34,606	72,092	53,241	101,423
Lorain	13,235	27,091	40,565	90,574
Lucas	10,860	14,593	8,058	12,177
Madison	32,361	96,384	64,403	168,473
Mahoning	10,141	33,320	69,432	171,667
Marion	31,732	74,544	71,392	160,332
Medina	12,425	33,284	53,864	112,585
Meigs	15,184	23,838	26,551	56,107
Mercer	32,205	44,643	11,200	16,401
Miami	30,535	83,497	9,572	27,601
Monroe	16,676	27,021	23,125	49,012
Montgomery	39,617	104,291	4,587	11,164
Morgan	15,791	32,585	69,133	180,603
Morrow	20,591	49,347	106,883	239,334

NUMBER AND VALUE OF HOGS AND SHEEP—Continued.

Counties.	Hogs.		Sheep.	
	Number.	Value.	Number.	Value.
Muskingum.....	29,872	\$75,184	137,294	\$336,097
Noble.....	16,788	33,605	54,579	110,440
Ottawa.....	11,643	20,929	15,912	24,629
Paulding.....	6,684	10,492	3,673	4,327
Perry.....	16,660	36,481	61,745	129,370
Pickaway.....	45,337	127,577	16,446	37,037
Pike.....	19,889	46,721	7,349	17,110
Portage.....	9,162	28,095	41,394	122,467
Preble.....	45,214	141,177	9,722	29,129
Putnam.....	31,896	59,630	13,252	20,557
Richland.....	37,834	86,072	56,363	131,008
Ross.....	55,075	156,829	11,876	28,183
Sandusky.....	25,429	38,883	27,742	39,625
Scioto.....	17,374	42,448	5,519	10,275
Seneca.....	41,859	87,628	57,621	86,078
Shelby.....	27,948	54,942	13,383	30,025
Stark.....	33,880	83,435	56,329	127,950
Summit.....	14,307	39,985	23,916	60,244
Trumbull.....	9,555	22,975	51,412	149,786
Tuscarawas.....	23,645	43,886	86,823	197,553
Union.....	33,523	88,346	73,561	182,237
Van Wert.....	24,915	39,875	9,430	16,757
Vinton.....	9,313	15,270	22,750	49,227
Warren.....	39,610	141,067	17,018	46,892
Washington.....	18,553	39,827	51,748	138,193
Wayne.....	37,538	84,583	41,937	91,159
Williams.....	22,525	35,879	22,707	43,530
Wood.....	28,013	43,308	19,481	24,188
Wyandot.....	30,730	53,094	64,019	117,257
Totals.....	2,341,411	\$5,464,465	3,909,604	\$8,578,123

WOOL PRODUCED, AND SHEEP KILLED AND INJURED BY DOGS IN OHIO IN 1877.

Counties.	Wool.	Sheep killed by dogs.		Sheep injured by dogs.		Aggregate amt of injury to sheep by dogs.
	Pounds shorn.	No.	Value.	No.	Estimate of injury.	
Adams	38,165	150	\$413 00	25	\$52 00	\$465 00
Allen	68,373	347	886 00	175	175 00	1,216 00
Ashland	184,363	255	686 00	200	419 00	1,405 00
Ashtabula	103,826	267	1,261 00	143	398 00	1,659 00
Athens	220,440	302	876 00	233	525 00	1,401 00
Auglaize	36,860	309	814 00	155	179 00	993 00
Belmont	519,065	504	1,802 00	157	347 00	2,149 00
Brown	40,399	244	832 00	83	148 00	980 00
Butler	32,921	560	801 00	26	818 00	1,619 00
Carroll	446,175	335	1,256 00	340	826 00	2,084 00
Champaign	157,357	280	924 00	74	154 00	1,078 00
Clark	188,440	208	776 00	211	465 00	1,141 00
Clermont	25,820	119	335 00	33	56 00	391 00
Clinton	80,674	288	858 00	346	490 00	1,348 00
Columbiana	474,313	683	2,227 00	361	1,050 00	3,277 00
Coshocton	96,013	446	1,206 00	285	374 00	1,580 00
Crawford	199,869	440	1,252 00	466	732 00	1,984 00
Cuyahoga	70,608	224	649 00	62	124 00	773 00
Darke	18,981	200	530 00	100	181 00	711 00
Defiance	38,301	116	285 00	57	69 00	354 00
Delaware	402,092	370	1,113 00	546	608 00	1,721 00
Erie	96,637	124	300 00	154	121 00	421 00
Fairfield	96,342	584	1,942 00	788	514 00	2,456 00
Fayette	71,721	377	1,145 00	1,431	595 00	1,740 00
Franklin	193,611	546	3,627 00	187	309 00	3,936 00
Fulton	199,605	265	511 00	126	115 00	626 00
Gallia	34,082	311	852 00	75	139 00	991 00
Geauga	76,892	118	475 00	75	128 00	603 00
Greene	86,005	347	1,188 00	348	795 00	1,983 00
Guernsey	610,563	307	994 00	262	438 00	1,432 00
Hamilton	14,285	242	1,010 00	78	108 00	1,118 00
Hancock	122,820	303	1,067 00	247	570 00	1,637 00
Hardin	115,777	465	928 00	246	552 00	1,480 00
Harrison	850,614	227	719 00	264	531 00	1,250 00
Henry	33,228	287	597 00	112	159 00	756 00
Highland	47,612	390	1,164 00	100	190 00	1,354 00
Hocking	102,882	359	1,029 00	178	332 00	1,361 00
Holmes	134,457	277	961 00	301	521 00	1,482 00
Huron	280,410	242	757 00	202	382 00	1,139 00
Jackson	29,350	232	565 00	70	68 00	633 00
Jefferson	458,334	355	1,245 00	133	354 00	1,599 00
Knox	548,338	408	1,532 00	369	472 00	2,004 00
Lake	63,599	103	299 00	41	79 00	369 00
Lawrence	9,141	109	241 00	21	23 00	264 00
Licking	970,362	459	1,222 00	594	947 00	2,169 00
Logan	190,976	323	907 00	274	474 00	1,381 00
Lorain	186,995	376	1,052 00	152	306 00	1,358 00
Lucas	25,866	484	1,283 00	176	259 00	1,542 00
Madison	210,132	385	1,263 00	125	317 00	1,580 00
Mahoning	259,359	314	1,237 00	403	581 00	1,818 00
Marion	274,353	345	1,054 00	348	459 00	1,513 00
Medina	207,671	354	1,164 00	198	437 00	1,601 00
Meigs	85,464	125	303 00	68	88 00	391 00
Mercer	33,414	202	466 00	115	248 00	714 00
Miami	33,312	254	758 00	116	196 00	954 00
Monroe	78,029	243	598 00	260	361 00	959 00
Montgomery	12,670	138	459 00	43	80 00	539 00

WOOL PRODUCED, AND SHEEP KILLED AND INJURED BY DOGS—Continued.

Counties.	Wool.	Sheep killed by dogs.		Sheep injured by dogs.		Aggregate amt of injury to sheep by dogs.
	Pounds shorn.	No.	Value.	No.	Estimate of injury.	
Morgan	232,138	282	\$856 00	158	\$289 00	\$1,145 00
Morrow	444,181	290	907 00	265	495 00	1,402 00
Muskingum	554,695	469	1,723 00	461	719 00	2,442 00
Noble	195,987	226	637 00	293	464 00	1,101 00
Ottawa	48,716	282	717 00	146	222 00	939 00
Paulding	9,721	84	248 00	17	23 00	271 00
Perry	282,373	391	1,241 00	190	339 00	1,580 00
Pickaway	44,461	325	816 00	549	332 00	1,148 00
Pike	21,315	198	508 00	66	88 00	596 00
Portage	145,476	220	794 00	289	492 00	1,286 00
Preble	35,538	273	951 00	103	244 00	1,195 00
Putnam	38,751	390	1,444 00	100	156 00	1,600 00
Richland	213,633	319	938 00	254	450 00	1,388 00
Ross	33,964	452	726 00	69	115 00	840 00
Sandusky	95,163	372	879 00	281	453 00	1,332 00
Scioto	9,240	262	540 00	28	63 00	602 00
Seneca	212,287	284	647 00	226	196 00	843 00
Shelby	47,738	342	953 00	124	224 00	1,182 00
Stark	179,567	466	1,343 00	238	516 00	1,950 00
Summit	88,450	246	943 00	152	248 00	1,191 00
Trumbull	193,553	338	1,445 00	610	1,370 00	2,815 00
Tuscarawas	328,081	479	1,756 00	192	430 00	2,186 00
Union	277,440	241	644 00	117	223 00	867 00
Van Wert	28,086	218	525 00	88	137 00	665 00
Vinton	77,492	241	637 00	35	50 00	687 00
Warren	43,999	275	988 00	155	303 00	1,291 00
Washington	196,763	371	1,058 00	207	285 00	1,343 00
Wayne	153,670	363	1,273 00	422	672 00	1,945 00
Williams	82,751	161	455 00	72	182 00	637 00
Wood	69,134	580	1,563 00	173	198 00	1,761 00
Wyandot	263,422	232	575 00	196	516 00	1,091 00
Totals	15,747,040	27,393	\$83,820 00	19,025	30,984 00	114,804 00

NUMBER AND VALUE OF DOGS IN OHIO IN 1878.

Counties.	Dogs for Taxation.				
	Over three months old— number sworn to.	Listed at \$50 and under—value not sworn to.		Valuation exceeding \$50.	
		No.	Value.	No.	Value.
Adams	741	72	\$470	2,224	\$113,632
Allen	2,544	95	2,572	426	21,846
Ashland	559	29	164	2,247	115,880
Ashtabula	485	52	325	2,036	103,444
Athens	943	4	55	2,049	104,998
Anglaize	1,841	81	385	1,287	67,774
Belmont	519	70	990	4,485	228,824
Brown	1,479	206	664	1,795	80,997
Butler	794	472	4,352	2,914	155,363
Carroll	214	87	700	2,085	209,260
Champaign	1,827	70	1,230	1,062	60,165
Clarke	716	159	2,000	2,732	140,340
Clermont	1,447	112	752	142	107,860
Clinton	1,365	266	1,532	1,401	78,071
Columbiana	1,044	152	2,416	3,084	164,626
Coshocton	460	36	837	3,152	177,192
Crawford	1,702	267	6,561	1,387	78,250
Cuyahoga	4,489	538	3,949	2,695	143,933
Darke	2,858	241	2,724	2,514	134,824
Defiance	1,495	104	518	647	3,217
Delaware	614	169	843	1,847	95,336
Erie	1,144	211	825	510	26,900
Fairfield	820	22	306	3,792	209,306
Fayette	1,591	96	924	1,188	61,267
Franklin	5,999	-----	-----	-----	135,979
Fulton	1,442	123	855	637	33,157
Gallia	791	41	181	3,333	160,070
Geauga	-----	215	351	1,141	61,461
Greene	931	82	1,315	3,151	161,950
Guernsey	393	3	70	2,621	135,013
Hamilton	7,402	-----	19,517	-----	114,060
Hancock	1,662	67	693	1,644	90,395
Hardin	1,930	57	618	551	24,901
Harrison	371	65	690	1,800	106,935
Henry	1,585	24	396	710	38,065
Highland	1,027	41	492	2,587	132,509
Hocking	445	259	332	2,103	107,967
Holmes	872	112	3,786	1,995	103,188
Huron	716	141	1,546	2,157	112,381
Jackson	888	6	96	2,160	108,049
Jefferson	984	63	900	1,966	114,810
Knox	644	95	750	2,541	113,431
Lake	135	6	150	894	47,406
Lawrence	2,843	176	926	1,393	71,174
Licking	1,078	263	2,519	3,171	160,306
Logan	2,242	208	1,124	913	50,749
Lorain	265	46	409	3,009	150,078
Lucas	2,659	251	2,474	354	18,227
Madison	494	61	404	1,682	74,641
Mahoning	1,205	262	2,097	2,495	130,379

NUMBER AND VALUE OF DOGS IN OHIO IN 1878—Continued.

Counties.	Dogs for Taxation.				
	Over three months old, number sworn to.	Listed at \$50 and under, value not sworn to.		Valuation exceeding \$50.	
		No.	Value.	No.	Value.
Marion	662	35	\$680	1,694	\$93,877
Medina	217	86	933	2,156	108,364
Meigs	1,778	44	662	1,621	82,938
Mercer	2,548	163	2,240	126	6,826
Miami	1,802	106	1,461	2,299	124,395
Monroe	3,878	20	339	3,378	170,935
Montgomery	2,380	428	5,610	3,919	208,810
Morgan	441	15	109	2,124	107,180
Morrow	467	63	1,266	1,876	96,843
Muskingum	1,447	344	1,930	3,981	201,142
Noble	890	-----	-----	1,892	98,657
Ottawa	1,055	176	1,011	641	33,244
Panhandling	1,403	96	767	49	2,654
Perry	470	-----	-----	2,461	125,511
Pickaway	1,083	48	1,148	3,110	164,781
Pike	556	12	92	2,468	124,206
Portage	881	58	653	1,672	87,584
Preble	825	121	661	2,269	125,763
Putnam	2,432	83	830	436	22,249
Richland	432	141	561	2,910	165,303
Ross	1,063	108	1,581	3,657	197,422
Sandusky	1,416	51	933	1,302	76,866
Scioto	1,695	535	4,651	1,034	51,337
Seneca	1,290	122	995	2,182	111,688
Shelby	1,485	104	543	1,828	95,437
Stark	1,177	330	2,200	4,944	267,990
Summit	950	90	1,126	1,778	100,375
Trumbull	738	55	764	3,725	191,567
Tuscarawas	1,057	138	832	3,438	177,900
Union	1,110	497	6,388	771	39,886
Van Wert	2,685	280	1,395	297	15,565
Vinton	981	20	102	1,038	56,065
Warren	1,217	277	1,145	1,654	85,777
Washington	1,318	156	1,253	3,525	179,415
Wayne	853	97	1,526	3,796	202,760
Williams	1,351	227	1,411	783	35,489
Wood	2,538	139	1,475	999	52,077
Wyandot	538	59	785	1,971	114,603
Totals	119,836	11,542	\$129,143	172,543	\$9,344,878

VALUATION AND TAXATION OF DOGS, IN ACCORDANCE WITH THE ACT OF MAY 5, 1877.
O. L., Vol. 74, p. 177.

Counties.	Value of dogs not included in chattel property.	Taxes on dogs by valuation.	Taxes on dogs at \$1.00 per head.	Total taxes on dogs not included in other special taxes.
Adams.....	\$113,877	\$1,968	\$783	\$2,751
Allen.....	22,648	469	2,513	2,983
Ashland.....	115,963	1,242	474	1,716
Ashtabula.....	101,406	1,250	566	1,816
Athens.....	104,825	1,756	980	2,736
Anglaize.....	68,778	1,025	1,810	2,835
Belmont.....	229,778	2,869	415	3,284
Brown.....	81,874	1,250	2,130	3,380
Butler.....	158,847	1,550	1,259	2,809
Carroll.....	107,820	1,090	146	1,235
Champaign.....	61,395	573	1,914	2,487
Clarke.....	142,322	1,391	877	2,268
Clermont.....	108,011	1,349	1,640	2,979
Clinton.....	75,080	790	1,583	2,373
Columbiana.....	168,205	1,278	1,062	3,340
Coshocton.....	178,445	1,821	532	2,353
Crawford.....	85,419	939	2,007	2,946
Cuyahoga.....	146,374	1,733	5,843	7,576
Darke.....	147,580	1,870	3,104	4,974
Defiance.....	33,225	673	1,591	2,264
Delaware.....	96,062	980	774	1,754
Erie.....	28,150	1,448	449	1,897
Fairfield.....	207,840	2,389	799	3,188
Fayette.....	62,264	833	1,654	2,489
Franklin.....	133,452	1,274	3,414	4,688
Fulton.....	34,013	645	1,505	2,150
Gallia.....	157,666	2,097	809	2,906
Geauga.....	61,268	457	241	698
Greene.....	162,663	1,875	937	2,812
Guernsey.....	135,043	1,604	417	2,021
Hamilton.....	134,137	1,437	5,465	6,892
Hancock.....	91,081	1,189	1,759	2,948
Hardin.....	25,519	438	2,051	2,483
Harrison.....	117,715	1,136	302	1,438
Henry.....	38,526	739	1,594	2,233
Highland.....	133,252	1,407	1,075	2,482
Hocking.....	107,909	1,502	704	2,206
Holmes.....	107,692	1,313	977	2,290
Huron.....	114,561	1,283	858	2,149
Jackson.....	108,049	1,748	976	2,721
Jefferson.....	115,580	1,077	1,052	2,124
Knox.....	130,353	1,357	744	2,109
Lake.....	46,663	442	106	541
Lawrence.....	72,285	1,156	3,206	4,188
Licking.....	169,152	1,795	1,212	3,002
Logan.....	52,864	643	1,910	2,557
Lorain.....	154,092	1,564	416	1,983
Lucas.....	20,810	357	3,086	3,444
Madison.....	74,856	814	1,019	1,833
Mahoning.....	131,578	1,338	1,318	2,713
Marion.....	94,042	939	901	1,649
Medina.....	110,088	918	375	1,290

VALUATION AND TAXATION OF DOGS—Continued.

Counties.	Value of dogs not included in chattel property.	Taxes on dogs by valuation.	Taxes on dogs at \$1.00 per head.	Total taxes on dogs not included in other special taxes.
Meigs	\$80,128	\$1,107	\$1,802	\$2,909
Mercer	8,669	178	2,749	2,927
Miami	125,856	1,622	1,897	3,551
Monroe	173,475	2,528	508	3,036
Montgomery	205,310	2,382	2,684	5,066
Morgan	107,548	1,458	484	1,942
Morrow	99,755	940	555	1,495
Muskingum	202,213	2,443	1,829	4,272
Noble	96,572	1,139	906	2,045
Ottawa	34,255	789	1,051	1,840
Paulding	3,348	101	1,479	1,598
Perry	111,886	1,632	373	2,005
Pickaway	163,229	1,823	1,131	2,954
Pike	124,430	1,778	611	2,389
Portage	88,216	822	966	1,788
Preble	128,365	1,232	913	2,145
Putnam	22,314	398	2,434	2,832
Richland	166,293	1,536	615	2,151
Ross	199,088	2,370	1,163	3,533
Sandusky	77,666	1,087	1,532	2,619
Scioto	55,869	1,507	1,841	3,348
Seneca	110,753	1,359	1,415	2,674
Shelby	96,677	1,447	1,420	2,867
Stark	256,371	2,595	1,469	4,064
Summit	97,810	1,090	1,029	2,119
Trumbull	190,215	1,899	837	2,736
Tuscarawas	178,589	2,224	1,247	3,471
Union	46,279	542	1,513	2,055
Van Wert	16,724	336	2,539	2,876
Vinton	52,786	874	957	831
Warren	74,343	727	1,329	2,056
Washington	182,886	2,365	1,496	3,861
Wayne	204,293	2,049	965	3,014
Williams	35,319	427	1,697	2,123
Wood	53,190	814	3,645	4,499
Wyandot	112,225	1,449	508	1,959
Totals	\$9,463,546	\$114,074	\$122,684	\$236,758

DOMESTIC ANIMALS DIED FROM DISEASE IN OHIO IN 1877.

Counties.	Hogs.		Sheep.	
	Number.	Value.	Number.	Value.
Adams	1,646	\$6,352	180	\$425
Allen	3,955	13,181	318	922
Ashland	369	1,551	534	1,330
Ashtabula	378	2,541	720	2,482
Athens	320	931	504	1,370
Anglaize	8,402	25,715	373	800
Belmont	520	1,917	2,030	4,490
Brown	6,675	30,211	295	779
Butler	9,685	43,689	353	1,171
Carroll	112	717	730	3,115
Champaign	3,393	14,660	607	1,384
Clarke	8,125	37,119	880	2,339
Clermont	3,158	14,908	209	574
Clinton	19,801	28,288	647	1,288
Columbiana	282	1,646	1,354	3,468
Coshocton	1,883	6,785	1,186	2,617
Crawford	4,080	18,106	877	2,389
Cnyahoga	320	1,529	287	796
Darke	9,872	34,758	237	575
Defiance	3,249	10,704	347	735
Delaware	730	3,135	1,510	3,252
Erie	391	2,041	554	1,138
Fairfield	8,498	39,054	428	1,215
Fayette	20,155	78,233	288	867
Franklin	14,041	63,539	1,092	2,673
Fulton	543	2,576	625	1,126
Gallia	1,828	6,150	237	560
Geauga	108	742	369	1,274
Greene	9,496	42,955	522	1,549
Guernsey	474	1,508	1,580	3,403
Hamilton	3,731	15,608	144	1,172
Hancock	8,642	29,016	670	1,357
Hardin	4,871	21,215	517	1,089
Harrison	76	458	1,881	5,085
Henry	2,689	10,328	278	593
Highland	4,412	18,977	426	1,053
Hocking	1,605	5,876	477	1,129
Holmes	955	3,549	455	1,277
Huron	629	3,733	1,284	2,911
Jackson	463	1,282	205	347
Jefferson	63	704	1,050	2,184
Knox	1,635	5,331	1,257	3,341
Lake	99	810	166	496
Lawrence	2,128	6,481	196	349
Licking	585	2,970	3,761	7,606
Logan	5,939	21,676	782	1,920
Lorain	386	1,958	596	2,090
Lucas	1,003	3,980	176	449
Madison	442	107,681	1,074	2,619
Mahoning	351	1,694	1,017	2,890
Marion	3,182	14,523	790	1,890
Medina	248	1,332	863	2,808
Meigs	515	2,393	278	595
Mercer	8,537	20,519	237	573
Miami	5,039	21,692	256	677
Monroe	415	1,514	493	1,114
Montgomery	6,531	30,552	130	462
Morgan	192	898	551	1,220
Morrow	272	1,416	1,082	2,631

DOMESTIC ANIMALS DIED FROM DISEASE IN OHIO IN 1877—Continued.

Counties.	Hogs.		Sheep.	
	Number.	Value.	Number.	Value.
Muskingum	1,637	\$6,246	1,764	\$3,907
Noble	341	1,458	682	1,635
Ottawa	539	1,606	362	656
Paulding	2,701	8,538	350	606
Perry	434	1,493	1,301	2,979
Pickaway	15,641	68,100	336	915
Pike	4,093	14,298	264	640
Portage	252	1,316	732	2,266
Preble	11,858	55,812	246	794
Putnam	5,847	21,382	582	1,513
Richland	1,744	5,826	598	1,660
Ross	11,918	45,369	287	589
Sandusky	1,187	4,761	710	1,605
Scioto	3,042	12,853	168	372
Seneca	1,237	4,319	557	1,333
Shelby	5,969	14,916	349	670
Stark	621	2,550	1,100	2,868
Summit	135	772	195	652
Trumbull	298	1,743	1,140	3,815
Tuscarawas	445	1,813	984	2,759
Union	5,015	23,532	1,153	3,019
Van Wert	5,997	20,339	233	518
Vinton	364	1,409	301	692
Warren	9,751	44,823	532	1,740
Washington	471	1,947	749	2,550
Wayne	620	2,709	615	1,868
Williams	1,069	3,531	257	634
Wood	2,925	9,780	541	1,195
Wyandot	2,074	8,007	1,053	2,207
Totals	306,349	\$1,334,655	59,106	\$148,700

DOMESTIC ANIMALS DIED FROM DISEASE IN OHIO IN 1877—Continued.

Counties.	Cattle.		Horses.	
	Number.	Value.	Number.	Value.
Adams	105	\$2,315	74	\$3,956
Allen	175	3,462	134	8,506
Ashland	152	3,648	13	6,655
Ashtabula	392	10,071	143	9,194
Athens	132	2,357	59	3,570
Auglaize	175	2,618	176	11,348
Belmont	263	6,883	131	8,907
Brown	144	3,609	148	9,387
Butler	260	7,479	236	19,281
Carroll	132	3,494	66	5,174
Champaign	154	4,107	134	10,347
Clarke	159	4,805	145	10,716
Clermont	207	4,899	152	8,407
Clinton	197	4,634	174	11,808
Columbiana	160	5,008	111	6,930
Coshocton	184	4,370	87	93
Crawford	209	3,650	135	8,687
Cuyahoga	247	7,554	104	7,518
Darke	287	4,874	190	13,549
Defiance	230	3,471	144	7,968
Delaware	132	3,684	108	8,360
Erie	111	2,492	79	5,875
Fairfield	161	4,528	119	8,702
Fayette	119	4,695	101	7,418
Franklin	189	6,189	166	12,133
Fulton	165	3,883	127	8,340
Gallia	339	3,652	115	6,291
Genaga	158	4,904	41	2,980
Greene	177	4,279	165	14,312
Guernsey	161	3,409	57	3,222
Hamilton	284	9,212	220	12,380
Hancock	188	4,293	168	11,125
Hardin	121	2,540	121	7,220
Harrison	124	3,765	44	4,365
Henry	303	5,314	104	6,345
Highland	171	4,804	158	9,290
Hocking	116	2,029	74	3,675
Holmes	138	3,172	137	8,576
Huron	277	7,653	178	14,400
Jackson	106	1,466	51	2,300
Jefferson	66	1,933	46	3,490
Knox	125	3,148	70	5,567
Lake	94	2,751	47	4,195
Lawrence	133	2,299	134	8,409
Licking	145	3,393	98	6,630
Logan	174	4,125	146	9,090
Lorain	333	10,296	159	9,029
Lucas	147	3,620	65	4,586
Madison	163	4,928	183	14,284
Mahoning	152	4,140	79	4,460
Marion	182	4,838	192	14,545
Medina	189	6,173	85	5,707
Meigs	103	2,459	79	3,217
Mercer	234	3,278	244	12,585
Miami	204	5,371	144	12,400
Monroe	144	2,989	69	3,835
Montgomery	292	7,025	272	14,554
Morgan	105	2,045	61	3,538
Morrow	118	2,727	73	5,415

DOMESTIC ANIMALS DIED FROM DISEASE IN OHIO IN 1877—Continued.

Counties.	Cattle.		Horses.	
	Number.	Value.	Number.	Value.
Muskingum	187	\$4,272	87	\$6,071
Noble	195	4,022	67	3,920
Ottawa	147	2,058	91	4,764
Paulding	348	5,584	255	13,698
Perry	121	2,545	73	4,650
Pickaway	241	6,616	171	14,621
Pike	140	3,228	110	4,855
Portage	252	7,755	91	6,408
Preble	193	4,088	151	13,065
Putnam	344	6,243	189	10,775
Richland	163	3,686	143	11,165
Ross	164	4,234	139	8,710
Sandusky	192	4,245	136	8,800
Scioto	141	2,833	177	8,550
Seneca	229	4,669	218	16,425
Shelby	121	2,287	121	8,500
Stark	360	8,204	185	12,742
Summit	179	5,480	70	5,040
Trumbull	340	10,057	96	5,400
Tuscarawas	185	3,983	89	5,883
Union	98	2,820	139	13,535
Van Wert	252	3,937	208	11,681
Vinton	76	2,105	33	1,589
Warren	214	6,368	189	14,731
Washington	161	2,366	111	5,867
Wayne	284	6,178	205	15,194
Williams	104	2,031	76	4,905
Wood	251	4,885	168	11,275
Wyandot	131	3,133	124	9,458
Totals	16,420	\$280,481	11,047	\$747,213

LOSSES OCCASIONED BY DISEASES OF DOMESTIC ANIMALS.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY N. S. TOWNSEND.

The following paper on the losses occasioned by diseases of domestic animals is an attempt to answer these questions. Why do so many domestic animals become sick? Why do so many sick animals die? And what may be done to diminish such losses?

In accordance with statistical requirements for current year, all stock-owners at the time of the annual assessment were required to report the number and value of all horses, cattle, sheep, and swine, lost by disease during the year preceding. In obedience to this requirement the following losses were reported: Horses, 11,047, valued at \$747,213; cattle, 16,420, valued at \$280,047; sheep, 59,126, valued at \$148,700, and hogs, 306,349, valued at \$1,334,655. An aggregate loss exclusive of mules which were not reported of \$2,511,049, this is near two per cent. of the assessed value of all the horses, one and a quarter per cent. of the cattle, one and three-quarters per cent. of the sheep, and over twenty-four per cent. of the value of the swine. If it be true, as is sometimes stated, that live stock in this State are assessed at not more than two-thirds of their actual value, then the live stock of the State assessed at \$73,131,116, is actually worth \$117,156,674, and in the same ratio, the losses during the year amounted to \$3,766,573. Since the losses sustained by owners of horses, cattle, and sheep, were less than two per cent. of the value of these animals, it is safe to infer, that they have suffered from no epizootic, and that hogs only have been subject to unusual mortality.

WHY DO SO MANY DOMESTIC ANIMALS BECOME SICK?

Domestic animals are subjected to unnatural conditions, as well as to much hard treatment; to these causes may be attributed much of their sickness. Horses are driven hard when the weather is extremely cold, the necessarily increased amount of cold air taken into the lungs, may of itself, be enough to produce diseases. After hard driving, horses are often allowed to stand only partially protected, or wholly unprotected

from the cold; the result is likely to be inflammation of the lungs, or some other disease of the respiratory organs. Horses are frequently kept fasting too long, then they are overfed or otherwise fed improperly, and hence, colic, indigestion, or inflammation of the stomach or bowels. Then what innumerable lamenesses come from over-driving, over-work, or unskillful shoeing. A valuable cow in full flesh may bring a calf, and be allowed soon after to drink at a brook or spring; drinking freely of cold water at such a time may cause a chill, and this be followed by parturient fever and death in a few days. The owner attributes the fever to septic absorption; this may be true, but it may be equally true that one or two pailsful of water of moderate temperature would have prevented the loss. Sheep are sometimes shorn while the nights are too cold, although the days may be warm enough, and many take pleurisy or inflammation of the lungs in consequence. In 1866, a succession of cold storms about shearing time destroyed a great many thousand sheep in Ohio, almost all of which might have been saved if shearing had been delayed, or sufficient shelter and protection had been afforded. The contagion of hog cholera is believed by many to be generated in the intestinal canal, and to be propagated by the evacuations of diseased animals; yet how few farmers take pains to secure clean quarters for their swine, even after cholera has made its appearance. How entirely the natural instincts and mode of life of the hog are changed when his rooting is stopped and he is fed exclusively on corn, and converted into a lard and pork factory.

Much sickness among animals, and loss to owners has heretofore occurred in Ohio from the spread of contagious diseases, owing to the deficiency of proper sanitary legislation. Only at the last session of the General Assembly was an act passed to prevent the spread of Texas fever; a year before, a Columbus butcher hired cattle pastured a few miles from the city, at the appointed time the cattle were brought to the city and slaughtered for beef, and, probably, no one suspected that they could spread disease. But when the farmer on whose land these cattle were pastured, afterwards turned his own cattle upon the same pasture, he soon lost sixty good steers from Texas fever. Since 1857, there has been upon the statute book a law to prevent the spread of foot-rot among the flocks of Ohio; before that time the value of sheep was often seriously reduced by this disease. The epizootic influenza that destroyed or affected so many horses in 1872 and 1873, was not prevented or restrained by sanitary legislation. A year or two since, there was an investigation of hog cholera, but it led to no action. In this State we have no commission existing whose duty it is inquire promptly into the facts of any epizootic outbreak with authority after allowing full or partial compensation to

the owner to destroy all animals liable to spread the contagion. Such provision has been made by several European governments and is found to be good economy.

WHY DO SO MANY SICK ANIMALS DIE?

Because sick animals in Ohio receive little appropriate medical or surgical treatment. Whatever the disease, many sick animals receive absolutely no treatment; the owner does not understand the disease, does not know what to do, and, perhaps wisely, does nothing. In another case, the owner of a sick animal consults all his neighbors, and finally resolves on something, after the opportunity of arresting the disease at its outset by a timely remedy has already passed, not realizing that late treatment is practically no treatment. Still worse is the treatment some animals receive. A man, for example, has a sick cow; one neighbor calls the disease "loss of cud;" another thinks it is "hollow horn," and a third believes it is "worm in the tail;" for those imaginary diseases every kind of nostrum is recommended. If the cow dies, no thorough examination is made to find out what the disease really was; each neighbor adheres to his original opinion, and nothing is learned for the management of similar cases in future. It may be that an animal is known to have some form of disease; the owner of the animal is also the owner of a work on veterinary medicine, but unfortunately he may not be accustomed to examine the pulse, has no means to ascertain the temperature, and no skill in judging of the stage of the disease, or of the condition of his patient. He gives what his book advises, and what would be the right thing in a particular stage of the disease, but which at another stage may be the worst thing possible. One difference between an intelligent veterinarian and a person who is not intelligent on the subject of disease, is this: the former prescribes for the condition of his patient irrespective of the name of the disease, while the latter prescribes for the disease by name irrespective of the condition. Some farmers make the mistake of supposing that all the veterinary help they require can be obtained from the columns of a newspaper, but unless a disease is trivial, or has become chronic, too much time is likely to be lost before this method can be made available. Few farmers can so describe a case that a veterinarian can obtain a correct idea of the actual condition of an animal, or if that were done, there is no assurance that the condition will remain unchanged until a prescription finally appears in another number of the paper. No doubt much valuable information on veterinary topics is given through agricultural papers, but this is rather applicable to future than to present cases. If a farmer's wife or child were taken

sick, he would not sit down and describe the case to the editor of his weekly paper, and expect the editor to refer the matter to a doctor, who, without compensation, is to return a prescription to the editor, which, with the whole correspondence, may appear in the next weekly issue. The plan of taking an agricultural paper, at one or two dollars a year, with the expectation of having veterinary prescriptions into the bargain, has an aspect of folly and stinginess that will not bear inspection.

HOW MAY SUCH LOSSES BE DIMINISHED?

By the prompt employment of skillful veterinarians, wherever such can be found; a skillful and not expensive operation may save the life of a valuable animal, so a timely dose of medicine may prevent serious illness and loss of life. The ordinary operations that all farmers make, or procure made, are often so unskillfully managed that the losses within the State in a single year would afford a good living for ten times our present number of competent veterinarians. Perhaps it will be said that we have but few competent veterinarians within the State, and that the employment of such as we have is uncertain, and often unsatisfactory. If this be true, it is much to be regretted, but it is equally to be regretted that stock-owners in Ohio are doing so little to secure a better state of things. On the thirtieth day of September last, the American Veterinary College, at 141 West Fifty-fourth street, New York, opened its fourth annual session; the class was gathered from nine States, and the West Indies, but not one student was credited to Ohio. On the first of October the Veterinary College in Montreal opened its annual session. Seven of our States were represented in the class, but Ohio was not among them. A similar school in Toronto began its winter course about the same time; of its class no report has been received. Is it not remarkable that Ohio, with domestic animals assessed at \$78,000,000, and actually worth one-third more, or \$117,000,000, and sustaining annually a reported loss of more than $3\frac{1}{4}$ per cent. on the whole amount, should exhibit such lack of interest? Well educated and accomplished veterinarians ought to find appreciation and plenty of encouragement in Ohio; such men are needed, not only to treat disease, but to investigate its hidden sources, and to devise better sanitary as well as curative management. Many diseases are already better understood than formerly, but there are others which need more careful investigation.

A better knowledge of the anatomy and physiology of animals on the part of intelligent and enterprising farmers would greatly diminish our losses: not by enabling them to dispense with the services of veterinarians, but by suggesting successful measures for preventing disease. Sanitary science, or the science of preserving health, is as applicable to

animals, as to human beings; what relates to the proper drainage of land, the sewerage and ventilation of buildings, pure water, good food, and proper management, if thoroughly understood, would soon tell upon the health of our animals and upon the resources and prosperity of the State. The Ohio State University already gives a good share of attention to such subjects; it remains, perhaps, to be seen how far such teaching will be appreciated.

Many losses might be avoided if all stock owners would constantly keep on hand a few effective remedies, and a few needful instruments to meet promptly the emergencies that will arise. Just as a prudent mother will keep castor oil, hive syrup, and paragoric, or their equivalents; so a prudent farmer should never be without Glauber's salts, salt petre, tartar emetic, laudanum, and spirits of turpentine. Of instruments, he should have a drenching horn, or long-necked bottle, a surgeons' needle, and silk, a fleam or lancet, a trocar and a canula. It would not be difficult for any man, or woman, of good common sense, to learn when, and how, to use some of these things, and so avoid loss, especially that most serious loss, the loss of time.

The most serious losses reported for the year, have been occasioned by hog cholera; the counties of Clinton, Fayette, Franklin, Pickaway, Preble, and Ross, have each lost upwards of ten thousand head of swine; in the counties of Butler, Warren, Darke, and Greene, the loss was near but below that number. It may be difficult for farmers in these counties to change at once the form of farming for which their soil is so well adapted, but to some extent it would seem to be the part of prudence to rely less on the production of their great staples, corn and pork, and to turn their attention to other crops less subject to uncertainty and disappointment.

With the hope of stimulating others to observation and experiment, a disagreeable visit recently made by hog cholera to the University farm, will be reported. Eighty hogs of all sizes were upon the farm, when on the 19th of October, one was observed to have a cough; this hog was immediately isolated, and what was thought to be appropriate treatment given. On the 25th of the month after a cold night, this hog was found dead, and also another of the lot from which the sick one had been taken. These hogs were carefully examined, and it was established beyond doubt that both had died of the disease known as hog cholera. At this time, several other hogs showed unmistakable evidence of having the disease. The whole herd was at once removed into new quarters, and separated into several parcels; twenty-one large hogs were yarded by means of a moveable fence upon a clover field, and a comfortable shelter was provided for them; these hogs, with their shelter, were moved every

day since by changing a part of the fence; another lot of ten smaller hogs were treated in the same manner upon the same clover field, except that they were not so well provided with shelter. Six large hogs, similar to the lot of twenty-one, appeared to be very sick, and were put under good cover with a small yard, and were not moved afterward. Two lots of small shoats and pigs were provided with fresh quarters, but have not been changed from day to day. Hyposulphite of soda was then obtained, and dissolved in all the drink, with which all the hogs were supplied at the rate of one-fourth to one-third of an ounce to every hog or pig, and this quantity was given three times a day. None of the hogs were allowed access to the brook running through the farm and through their former yards, under the impression that this brook might have brought the contagion, hog cholera having prevailed higher up the stream. The food of all the hogs was changed wholly, or in part, from corn, to pumpkins; turnips were also given, but were not eaten, except they were cooked. Two hogs died the day after they were moved, and several since. The result at this date, November 25th, one month from the time they began to die, is as follows: The twenty-one large hogs have all passed safely through the disease; they had cough, constipation, dark colored evacuations and diarrhoea; all have now recovered, have a good appetite, and are again eating their full ration of corn. Of the ten smaller hogs put on the clover field, and moved daily in the same manner as the larger hogs, four have died, and all of them of inflammation of the lungs, or pleurisy, after passing through, and apparently recovering from the inflammation of the bowels. Of the six large hogs that were sickest, one died the day after moving, the remaining five are now well. Several of the pigs and shoats passed through the bowel trouble, but continued to cough; to relieve the bad condition of their lungs, tar was used, a tablespoonful for half a dozen hogs, was put into a pail, and boiling water poured upon it; when the tar was partially dissolved, the whole was poured into water or slops, with which the pigs were supplied. To the larger lot of shoats, tar was given as well as the hyposulphite; two have since died; to a smaller lot tar was not given, and seven have died. All told, in a month from the first loss, five hogs have died, and thirteen pigs and shoats, with a probability that two or three others which continue to cough will be added to the number. Every one that died was carefully examined; the whole number of hog cholera cases thus examined by the writer within four or five years considerably exceeds one hundred.

We will now give in detail the conclusions drawn from this experience. The first point which appeared to be established, is that the infection of hog cholera may be carried by a stream from an infected

region above, to farms below. Unless this be true, we cannot explain the appearance of the disease on the University farm. Acting on this conviction, all the hogs were removed from yards through which the stream ran; and without shutting the hogs from the brook, they could not have been induced to take the articles we desired to give in their drink.

The removal to fresh quarters from where the disease was first manifested, and to a fresh place day by day, was resorted to, from the conviction that this disease bears a close analogy to typhoid fever of the human subject. The contagion of typhoid is probably generated in the bowels of the diseased, and is communicated through the evacuations to the healthy. The contagion of hog cholera, whether it be analogous to a ferment, or consists of parasitic organisms, carries with it the power of reproducing its like, and whether communicated by direct contact, through the atmosphere, or by a stream, or by all of these, it would seem to be wise to remove animals from all places already reached by the infection. By daily changes from place to place, the twenty-one large hogs thus managed had a clean place every day; their pen was made by portable fence, and its daily change was but little trouble, and at the same time a comfortable shanty, in which they slept and sheltered, was moved with them. This daily change was probably less important than other features of the treatment, for, of the ten smaller hogs which had the same daily change, four died; while, of the six hogs supposed to be sickest, five recovered without removal; they had however the best floor, and most comfortable place for sleeping.

Food.—A diet of corn exclusively is doubtless very fattening to healthy hogs, but in the sick it excites a high grade of fever, and the more fever the more local inflammation, and the greater the danger. Potatoes, beets, and pumpkins are better than corn for sick hogs, but a fluid diet is best of all; milk, sweet or sour, is the best food; or, if it were convenient to make a soup from butcher's offals, this would equally well replace the nitrogen consumed in the course of the disease. In typhoid of the human subject, milk and beef tea constitute the diet, to the exclusion of solid food.

Shelter and Warmth.—All of the hogs to whose death reference has been made, died during the coldest nights. Where the lungs are infiltrated with serum, or solidified like flesh, as they are in many cases in hog cholera, the respiration is proportionably impaired, and the production of animal heat almost impossible; then warmth is life, and cold is death. If hogs are kept sufficiently warm, and the lungs are not too much affected, some will recover, but if subjected to any exposure such will die. Cold water from a creek or spring often abstracts more heat than

can be afforded, hence in warm drink and food there is much less danger. In cold weather a good shelter, with plank floor and plenty of litter, will greatly favor the recovery of affected animals.

Hyposulphite of soda was given as a disinfectant or anti-zymotic (opposed to fermentation); it was chosen instead of the sulphite, or bi-sulphite of soda, because it is much less expensive, and less disagreeable to the taste. If dissolved in sufficient liquid it will be taken voluntarily, where hogs are deprived of other drink. It dissolves equally well in water or milk; the latter most effectually conceals the taste. Besides its action as an anti-zymotic, it is laxative and cooling, and therefore fills more than one important indication. It did not at once arrest the disease, but it appeared to moderate the fever of the early stages, and lessen the danger from inflammation and ulceration of the bowels. Ulceration so frequently found in the cœcum and large intestines, and sometimes in the small, was not found in any of these hogs that took the hyposulphite from the beginning of the attack. In later stages of the disease it did not relieve the cough, or bad breathing, when these depended on inflammation of the lungs, pleurisy, pericarditis, or pulmonary infiltration. The hyposulphite was continued through the month, at the rate of an ounce, or nearly an ounce, a day for each hog—those that took most drink took most medicine.

Tar was given when the disease had become somewhat chronic, and the cough was particularly troublesome. It was selected in preference to other articles, because it is cheap, usually at hand, and when sufficiently diluted and mixed with the drink, will be taken voluntarily. It is a good disinfectant, a stimulating expectorant, and diuretic, and therefore filled several obvious indications. In some cases it gave considerable relief, and more than justified the trouble of its administration; but it did not control the inflammation of the lungs.

Other Remedies.—To the hog first sick, after complete isolation, sulphur was administered in laxative doses. Afterwards, the difficulty of breathing and thumps were so troublesome that tartarized antimony was given—ten grains daily for four days. The difficulty of breathing was so much diminished that recovery was expected, but after a very cold night this hog was found dead; on examination, more ulcerations were found in the cœcum and ileum in this case than in any that died subsequently. Castor oil and calomel were given in a case where the constipation was a marked symptom; these had the expected effect of producing free evacuations, but did not abate the inflammation of the bowels, of which the animal subsequently died. Sulphate of soda (Glauber's salts) was also given as a cathartic to several that suffered most from constipation; it

had no decided advantage over flowers of sulphur, which the hog will take without objections, if mixed with his food or drink. There is, however, no difficulty in giving medicine in liquid form to a tolerably quiet hog; the loop of a small cord is slipped into the mouth, and the snout gently lifted up, then the hog will swallow a pint or more of liquid from a bottle without difficulty, but harshness and force only do harm.

Finally, it seemed to be proven, that the mortality from hog cholera may be greatly diminished by careful, humane, and intelligent treatment. Other measures may be more efficacious than those adopted on the University farm. We had, however, the satisfaction of getting through with the disease with the loss of less than a fourth of the animals affected, and much less than a fourth of the value of the herd. No specific has been discovered, and we doubt if one ever will be; our success was not what we wished, though the result has been more favorable than we feared. It is something to say, that we are not discouraged, but are persuaded that we might profit by some mistakes, and secure a still better result, if ever compelled to make the trial again.

HORTICULTURAL STATISTICS.

APPLES, PEACHES, AND PEARS PRODUCED IN 1877.

Counties.	Orchards.	Apples.	Peaches.	Pears.
	Number of acres.	Number of bushels.	Number of bushels.	Number of bushels.
Adams	4,430	172,708	2,867	2,723
Allen	4,060	28,531	42	189
Ashland	5,020½	26,285	5,561	683
Ashtabula	6,331	161,640	10,656	2,032
Athens	5,108	316,707	7,724	523
Auglaize	3,192	17,003	25	134
Belmont	6,517	115,072	1,283	1,904
Brown	4,689	169,933	312	2,179
Butler	3,961	72,392	75	1,630
Carroll	5,437	89,084	27,303	365
Champaign	2,938	11,295	35	485
Clarke	3,078½	17,709	36½	625
Clermont	9,687	204,377	970	6,632
Clinton	3,538	84,064	30	1,165
Columbiana	8,347	157,578	26,674	1,618
Coshocton	6,170	67,898	16,748	492
Crawford	4,740	16,775	1,033	636
Cuyahoga	5,294½	31,335	1,471	471
Darke	5,548	25,070	45	924
Defiance	2,904½	8,933	206	390
Delaware	4,962	11,102	1	148
Erie	4,053	115,832	11,698	642
Fairfield	5,684	91,404	113	305
Fayette	2,080	42,179	43	257
Franklin	4,185	25,091	120	342
Fulton	5,134	33,920	577	649
Gallia	5,266	144,955	46,657	516
Geauga	4,314	33,693	3,292	692
Greene	3,431	56,606	36	939
Guernsey	5,615	98,467	14,658	657
Hamilton	8,352	172,627	2,848	9,539
Hancock	5,104	118,979½	349	203
Hardin	3,091½	4,549	26½	46
Harrison	4,083	99,208	13,522	871
Henry	3,661	16,668	206	170
Highland	5,418	132,518	333	1,401
Hocking	4,285	64,065	103	51
Holmes	5,089½	26,715	6,474	542
Huron	6,576	51,520	5,587	709
Jackson	3,584	119,489	17,591	168
Jefferson	4,364	180,993	5,162	1,052
Knox	5,441	18,616	1,922	405
Lake	3,067	44,654	4,330	263
Lawrence	5,213	141,827	26,701	1,160
Licking	6,487	121,621	3,035	1,151
Logan	3,318	9,960	28	425
Lorain	6,020	102,041	4,470	339

APPLES, PEACHES, AND PEARS PRODUCED IN 1877—Continued.

Counties.	Orchards.	Apples.	Peaches.	Pears.
	Number of acres.	Number of bushels.	Number of bushels.	Number of bushels.
Lucas	3,475	32,109	1,940	433
Madison	2,248	8,722	43	37
Mahoning	4,756	62,524	12,862	3,440
Marion	3,061	10,012	121½	174½
Medina	5,409	22,606	4,107	812
Meigs	6,385	234,450	24,902	921
Mercer	2,739	16,424	14	184
Miami	4,045	23,246	222	488
Monroe	5,895	141,485	1,104	249
Montgomery	4,882	25,023	3,295	1,603
Morgan	5,650	79,838	2,299	696
Morrow	5,226	38,149	59	496
Muskingum	7,456	67,335	17,265	1,775
Noble	4,371	101,620	2,616	392
Ottawa	1,699	21,229	5,333	439
Paulding	1,464	2,877	.....	18
Perry	3,942	44,618	736	735
Pickaway	2,896	60,346	138	254
Pike	3,286	140,796	4,046	292
Portage	6,571	58,474	16,097	974
Preble	3,904	20,661	12	1,036
Putnam	2,922	11,747	33	57
Richland	6,188	33,252	1,107	978
Ross	5,241	155,900	378	829
Sandusky	4,791	44,323	6,621	222
Scioto	2,913½	101,130	5,168½	485½
Seneca	6,447	32,747	2,624	586
Shelby	3,158	21,092	10	132
Stark	6,421	184,189	14,256	2,807
Summit	4,801	49,136	5,802	1,067
Trumbull	5,978	58,844	6,447	722
Tuscarawas	7,036	103,209	39,436	960
Union	3,350	6,667	5	118
Van Wert	2,897	14,032	.....	72
Vinton	2,837	88,022	1,688	112
Warren	5,740	11,105	16	3,107
Washington	11,207	225,725	10,512	471
Wayne	6,961	53,155	16,832	1,709
Williams	4,833	57,700	813	433
Wood	4,994	11,847	680	221
Wyandot	3,422	6,103	535	258
Totals	418,288½	6,248,677½	483,085½	80,254½

GRAPES AND WINE PRODUCED IN OHIO IN 1877.

Counties.	Grapes and Wine.			
	Acres planted in the year 1877.	Whole number of acres in vineyards in 1877.	Pounds of grapes gathered in the year 1877.	Gallons of wine pressed in 1877.
Adams	2	14	9,900	185
Allen	17	17	10,572	114
Ashland	12½	90½	269,125	318
Ashtabula	5	35½	210,000	403
Athens	3	9	9,482	50
Auglaize	12½	109½	62,380	5,063
Belmont	15	217½	36,700	12,393
Brown	17½	34½	3,950	615
Butler	1	7½	8,135	442
Carroll	1	580	580	3
Champaign	1-16	5	1,135	4
Clarke	53	456½	286,950	8,898
Clermont	4	40	40	.....
Clinton	9	184½	91,709	765
Columbiana	3	25	27,700	278
Coshocton	9½	25	26,500	608
Crawford	94	630½	1,092,731	7,972
Cuyahoga	2	412	412	25
Darke	8½	1½	1,725	8
Defiance	1	4	3,185	.....
Delaware	37½	1,374	2,057,648	233,676
Erie	12	280	54,300	400
Fairfield	5	420	420	.....
Fayette	8	30	875	.....
Franklin	2½	250	250	69
Fulton	10½	35½	20,950	634
Gallia	1	14	41,200	244
Geauga .....	.....	70	70	.....
Greene	36	38,830	38,830	154
Guernsey	430	807	397,237	6,962
Hamilton	2½	5½	19,150	66½
Hancock	½	1	2,710	.....
Hardin	6½	7½	17,100	72
Harrison .....	.....	150	150	.....
Henry	2	5	910	.....
Highland	10½	47	2,229	.....
Hocking	5	45½	19,320	707
Holmes	8	30	35,420	28
Huron .....	.....	6½	385	.....
Jackson	19	36	4,500	460
Jefferson	11	19	2,240	2
Knox	23	68	11,180	10
Lake	1	3,095	3,095	15
Lawrence	8½	15,650	15,650	378
Licking	1½	2	3,230	1,656
Logan	56	465	187,610	710
Lorain	19½	117½	1,240,930	2,854
Lucas	4	5	.....	.....
Madison	10	60½	161,825	1,827
Mahoning	6½	8½	3,235	64
Marion	4	33	13,310	108
Medina .....	.....	.....	.....	.....

GRAPES AND WINE—Continued.

Counties.	Grapes and wine.			
	Acres planted in the year 1877.	Whole number of acres in vineyard in 1877.	Pounds of grapes gathered in the year 1877.	Gallons of wine pressed in 1877.
Meigs	3	27	34,500	453
Mercer		1		200
Miami		8	225	
Monroe	3½	40½	20,500	1,010
Montgomery	½	30½	105	
Morgan	¾	30½	19,895	160
Morrow	4½	5½	1,800	145
Muskingum	4	52	43,195	1,027
Noble	3	8	4,850	260
Ottawa	88	1,862	3,004,914	183,475
Paulding*		½	2,137	9
Perry	3	128	187,700	419
Pickaway	4	10	1,035	2
Pike	2	16	630	70
Portage	23	52	238,390	471
Preble	1	1		
Putnam	1½	15	3,634	15
Richland	5	167	200,061	39
Ross	5	172	13,233	1,013
Sandusky	6½	36½	37,590	1,185
Scioto	1½	10½	4,465	455
Seneca		8	9,250	711
Shelby		½	100	
Stark	42½	80½	117,543	706
Summit	10	31	86,780	384
Trounbul	11	23	144,265	275
Tuscarawas	6½	27½	5,900	301
Union	4½	8½	7,357	6
Van Wert	¾	2½	1,980	24
Vinton		36	60	
Warren	6	8	120	1
Washington	10	77	89,720	4,478
Wayne	1½	33½	70,755	902
Williams	5½	10½	29,135	81
Wood	3½	13½	202,915	826
Wyandot	80½	101	25,635	85
Totals	1,274½	8,695½	11,119,401	488,419½

* Paulding county reported half acre in vineyard in 1874. No report of acreage since that time.

THE FRUIT CROPS OF OHIO.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY M. B. BATEHAM,
Secretary of the State Horticultural Society.

It appears from the assessors' returns, that the number of acres of orchards in the State in 1877, was 418,289. In 1873 the number of acres was 385,829, thus showing an increase of 17,426 acres in the four years. Without claiming that the returns are strictly correct, and they show rather too much variability, it is certain that a good deal of orchard planting—apples, pears, peaches and plums—has been going on of late years, in various parts of the State. On the other hand, there have been many of the older class of apple orchards cut down, as no longer profitable, and many peach orchards have been destroyed by severe winters and other causes; so that the amount of orchard planting, done each year, is much greater than appears from the increase of the aggregate acreage. In the county of Warren, for instance, where the largest peach orchards formerly existed, the returns for 1872 give the number of acres of orchards as 7,022, and nearly the same number the year previous, but in 1873 the number was reduced to 5,782, and the latest returns are about the same. This is chiefly owing to the destruction of peach orchards by the severe winter of 1872-73, and the successive failures of that fruit, preventing much replanting. There has also been a slight decrease in the acreage of orchards in several of the adjacent counties, as Greene and Montgomery, partly from the same cause, and partly owing to the unprofitableness of the apple orchards.

THE APPLE CROP.

The apple crop of 1877, as stated in last years' report, was a very light one in most parts of the State, though not so nearly a failure as the northern residents supposed, for it was found that in the extreme southern border a number of counties were favored with nearly half a

crop; viz.: Washington, Athens, Meigs, Scioto, and several others. The fruit from this district is mostly shipped by the river, to southern cities, and does not contribute largely to the supply of our own markets.

The aggregate crop of the State for 1877, is reported as 6,248,677 bushels, but it is believed the number is somewhat overstated in several of the northern counties. The crop of the previous year, (1876), was reported as 29,641,200 bushels, and as much of the fruit was never gathered or reported, the crop may be set down as 30,000,000 bushels; while that of the previous "odd year," 1875, was only 1,530,049. These figures show how generally the orchards of the State have fallen into the unfortunate habit of bearing full crops ever alternate year, with scant ones or failures between. This can be more distinctly seen by taking the returns for three years, of a group of counties in any district of the State.

The extent of this alternation would appear still greater, if it were not for the fact that young and thrifty orchards do not, for some years, follow the example of the older ones; and hence most of the fruit that we obtain in the odd years, comes from the younger class of orchards, and hence, also, the majority of the old orchards are of no pecuniary benefit to their owners.

The apple crop of 1878 was again, of course, an abundant one, and the same being true of most other States, the markets were all glutted, and the prices for the fruit so low as to hardly pay for gathering, shipping and marketing; so that, as in 1876, much of the crop was left ungathered in the orchards, and no profits resulted to the orchardists. The trees, too, are weakened by bearing an excessive crop, so that they require all the next season for recuperation, and hence little or no fruit is then to be expected excepting from the young orchards.

The question is often asked, whether anything can be done to prevent or lessen this alternating habit of apple orchards. Some time was spent in discussion on this topic at the late annual meeting of our State Horticultural Society, and the practical conclusion was that it can be measurably prevented by thinning off the fruit severely, when trees of only moderate size are setting a full crop, and at the same time giving such culture, with manuring if needed, as to keep the trees in a growing condition. Another suggestion is, that as a large portion of the orchards are old, and the trees too much stunted to admit of their being recuperated or made profitable, young orchards should be planted in their stead, and the old ones cut away. In planting new orchards, care should be taken to select good deep soil, and prepare it thoroughly, also to choose the best varieties of apples for the location and the purpose for which the fruit is designed. Much useful information on these points may be

found in the annual reports of the State Horticultural Society, which are published each year as an appendix of the State Agricultural Report.

THE PEACH CROP.

The peach crop has not been good throughout the State since 1874, when it amounted to 2,235,574 bushels. Most of the trees were injured by overbearing that season, and, as a consequence, many of them were killed by the following winter. The next year, 1875, the crop was a complete failure in most parts of the State, and the aggregate was only 36,583 bushels. The crop of 1876 was very little better—47,298 bushels—and that of the past year, 1877—483,086 bushels. The sections where this fruit has done the best, the past few years, are on the hill lands bordering the Ohio river, of a few southern and eastern counties, and in the northern parts of the State. Along the lake shore, and in the vicinity of the islands, the crop was quite profitable the past season, and fair the year previous, so that many additional orchards are being planted.

PEAR CULTURE.

Pear culture has not become a success in Ohio, though much planting has been done, and persistent efforts put forth by intelligent horticulturists. Some of these men have attained a fair measure of success for a time, but sooner or later the trees have generally succumbed to the dreaded *blight*, a disease that has long vexed and puzzled the horticultural world. Many of the trees supposed to have died from blight have really been killed by the winters, along with overbearing or starvation, or from being planted on unsuitable soil. These matters are now better understood than formerly by those who take pains to investigate them, and there is reason for the belief that a larger measure of success will hereafter attend the cultivation of this very desirable fruit.

PLUMS.

Plums, especially *damsons*, are quite extensively grown in several of the southwestern counties of the State, including Ross. Much planting has also been done, of late, in that section and elsewhere, of the finer plums as well as damsons; so that if the orchards are at all successful this fruit will, in a few years, be of considerable commercial importance, and deserve to be included in the statistics of orchards. The main difficulty in plum growing is, not as usually supposed, the ravages of the curculio—for that can easily be prevented—but the liability of the trees to winter-killing, and this seems to be more a consequence of the premature shedding of the leaves in summer than the severity of the winter.

CHERRIES.

Cherries, of the sweet or heart class, are but little grown for the markets in this State, owing to the very perishable nature of the fruit, and its liability to rot on the trees when ripening, also the depredations of birds. But in the southwestern quarter, around Cincinnati especially, large orchards exist, of the Morello variety, called Early May, which are very productive and profitable, the fruit being shipped long distances and selling well. Small orchards of the kind are found in the north, and are also successful.

GRAPE GROWING.

Grape growing has been less successful than formerly, for two or three years past, in consequence of the increasing prevalence of the rot, besides some damage by the winters or the spring frosts. The cause of the disease of the fruit, called rot, is as much a mystery as that of the pear blight. It seems to be mainly the effect of atmospheric influences and hence not easy to prevent or control, though it can be partly avoided by judicious selection of soils and locations. Here again, I must refer those interested, to the discussions and essays in the Horticultural Reports. The vineyards in the region of the lake shore and on the islands, constituting the greater part of those of the entire State, have been fairly successful the present year (1878) as well as the year previous. There has been some decrease of the number of acres of vineyards in the State the past few years. It was reported as high as 11,220 acres in 1871 and nearly as many in 1870. In 1876 the number is reduced to 8,322, and in 1877, 8,695. Ottawa and Erie counties, embracing the islands, contain 3,236 acres, and the other lake shore counties 1,316 acres, making over one-half the acreage of the vineyards of the entire State, and yielding, in 1877, nearly two-thirds of the entire amount of fruit, which, for the State, was 11,119,401 pounds. From this there was made 488,420 gallons of wine besides the fruits sold in the markets. The figures for 1876 differ but slightly from those for 1877. The acreage of vineyards on the islands has been pretty well kept up for some years past, enough new planting being done annually to make up for any vineyards destroyed. In some of the interior counties, where the vineyards are small and the rot has prevailed for several years, the acreage has been materially diminished, and is likely to be farther reduced unless some method is discovered for avoiding the prevailing malady.

THE SMALL FRUIT CROPS.

There has been a marked increase of the amounts of strawberries and raspberries grown and marketed in this State the past three or four years.

The people of our towns and cities seem to be increasing their taste for these summer fruits, and using them more freely as a part of their daily food. No statistics are at hand showing the amount of annual product or sale of berries in the State, but some facts were stated, at the late meeting of the State Horticultural Society, respecting the amount of sales in several of the cities, which were quite surprising to persons who had not given attention to the subject. The crop of these fruits was quite good the present year, (1878), and the prices at which they were sold were lower than usual, which fact, doubtless, contributed largely to the increase of consumption. In the city of Cleveland it was estimated, by those in the trade, that during several weeks of the strawberry season the sales averaged *one thousand bushels per day*, besides nearly as many shipped to Detroit and other places; and at Cincinnati, Columbus, Dayton, and several other places the sales were nearly in the same ratio for the population. Raspberries, coming immediately after strawberries, are also increasing in demand and use, and the sales are very heavy, especially of the black-cap varieties—as these bear distant transportation better than the reds, and can be more cheaply grown; but some growers located near city markets find more profit in the reds, as they bring higher prices.

CURRENTS.

Currents are in demand next after raspberries, or along with them. The domestic supply of this fruit has been materially lessened by the ravages of the currant worm, and those who take the pains to fight off these insects, and also to give good culture to the bushes, find the crop as profitable as the other small fruits, and it serves to prolong the season of selling.

ARBORICULTURE.

FOREST CULTURE IN OHIO.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY M. C. READ, HUDSON, OHIO.

Observers are not fully agreed as to the extent of the climatic influences resulting from the destruction of the Ohio forests. Whether the amount of the annual rainfall is diminished or not, it is probable that the number of rainy days is diminished, and that the rainfall is not as equally distributed as formerly. It is certain that very many springs and streams that were formerly perennial now fail entirely in protracted drouths. Old mill sites are abundant on the banks of streams which are now very insignificant, and would furnish no valuable water power. On farms that were once regarded as well watered, wells are sunk to obtain water for the domestic animals, or mere excavations made to catch and retain the surface water, in stagnant pools, thus securing an uncertain and a very unwholesome supply. Some of the causes which have produced these results are easily recognized. The forests retained the rainfall, checked the surface flow of the water, and the network of roots carried it downwards, so that the earth became saturated to a great depth. After the forests were removed the surface flow was uninterrupted, the wash of material into the lakes and swamps was greatly increased, their dimensions rapidly diminished, and partly by these causes and partly by artificial surface drainage, many of these swamps and lakelets have been wholly obliterated. The surface along the whole of the table land which separates the waters of the lake and the Ohio River was originally diversified by a multitude of lakes, swamps and hollows, not the result of surface erosion, but of the agencies which deposited the drift. These constituted so many reservoirs to retain the

surface water, carry it deeply into the earth, and feed the springs on each side of the divide, and thus made the streams perennial. Surface channels of drainage now take the place of the subterranean channels, which fed the springs. As the roots of the trees have disappeared in the cleared fields and the cavities which for a time marked their places have become obliterated, a large percentage of the rainfall flows rapidly off into the streams, swelling them into larger dimensions than they ever formerly attained, but at the expense of the springs, which fed them in the intervals of drouth. Wherever irrigation is carried out on a large scale, as it was in some parts of India before the English occupation, it must be done by constructing just such reservoirs to hold in reserve the superfluous rainfall.

The increased rapidity of surface evaporation is one important element in the climatic influences resulting from the destruction of the forests. Every farmer understands the marked effect of a slight mulching of the surface in retaining the moisture in the soil, and careful experiments reported by Franklin B. Hough, of Lowville, N. Y., in his report to the United States Commissioner of Agriculture, "upon Forrestry," shows that the total surface evaporation from April 1st to September 30th, from a square foot of saturated earth, was—

In the open fields	2,174.60 cubic inches.
In woods, without litter.....	847.03 "
In woods, with litter.....	333.04 "

The first would be equal to a rainfall of 15.10 inches, and the last to that of 2.31 inches. The writer of the report reaches the following general conclusions from the experiments and observations collected by him:

"1. The forests alone, without litter, diminish the evaporation of water in the soil as compared with the open fields (in the mean of two years observed), 62 per cent.

"2. The litter covering in the forest diminishes the evaporation still further 22 per cent.

"3. Forests and litter together reduce evaporation 84 per cent.

"4. In litter covered forests the evaporation is 60 per cent. less than in uncovered forest soil." (Page 246.)

It is evident from all these facts that in the summer months very little of the rain except that which falls upon a wood-covered surface can reach the sources of the springs, and that they must gradually fail as the forests are destroyed.

It is probable that the full climatic effects of the removal of our forests are not yet seen, and that the evils will steadily increase if their destruc-

tion is continued. It is certain that the State is already dependent upon extra-territorial regions for its supply of lumber, and that very many farmers cannot obtain from their own land the timber needed for fences and other farming purposes.

The map showing the distribution of wood lands, according to the statistics of the last census, assigns to the greater part of Ohio from one hundred and twenty to two hundred and forty acres of wood land to the square mile, or from three to six sixteenths of the surface. The statistics of forestry in the United States Agricultural Report for 1875, gives the forests of Ohio as 31 7-100 per cent. of the surface, the extremes of the counties being Erie 13.3, and Paulding 60 per cent. These statistics are calculated to give a very erroneous idea of the extent of our timber reserves. From nearly all this forest the most valuable timber has been gathered, much of ordinary quality removed, and agencies are in operation which, if continued, will in a brief time destroy what remains. The partial removal of the timber has left openings, spontaneously occupied by our native grasses, which the farmers, through a false economy, have sought to save by making the wood lands a part of their pastures. The cattle, hogs, and sheep, roaming through these detached forests, are effectually preventing the growth of any new trees, and it is just here that the first efforts at forest culture in Ohio should be made—an effort to save the forests that remain. Under present management, when the crop of trees now standing is gathered or perishes by age, the forests will disappear. All seedlings, as fast as they spring up, are destroyed by domestic animals, the young trees are broken down or injured, the undergrowth of small shrubs is destroyed, which formerly protected the surface, held the fallen leaves in position, and retarded the surface flow of the water; and unless the practice of making the forests ranges for domestic animals is abandoned, their early destruction is inevitable.

In the forests of France and Germany, young trees are carefully planted to take the place of those removed; but if our forests can be thoroughly protected from the intrusion of domestic animals, it is believed that seedlings will spring up in sufficient abundance to maintain the forest, and that the annual growth would equal the consumption for ordinary farm uses. To accomplish the best results, the worthless varieties of the larger trees should be destroyed, and the growth of the shrubs which constitute the "underbrush" encouraged. It is a mistake to cut this away because it will not make valuable timber. It protects the surface from the rays of the sun and the action of the wind, checks evaporation and retards the surface flow of the water, tending to maintain that moist condition of the atmosphere and of the soil which is essential to forest growth. The

expense of preserving what we have is light in comparison with the cost of replacing it, and this can be done only in the manner indicated above. If a farm is overstocked, and the pastures begin to fail, it is better husbandry to turn the cattle into the standing corn, than into the forest reserves. The corn-field can be restored in a single season, but when the forest is destroyed a hundred years are required for its full restoration, and a proper per centage of forests is essential to the best returns from the arable and pasture lands. The lowest amount required to secure the best agricultural results from the rest is estimated by Marsh at twenty-five per cent.

The second source of our future supply of timber should be the rock-covered hills which are fitted only for the growth of forests. Many of these, especially in the eastern part of the State, are in sand-stone formations, especially adapted to the growth of the chestnut, where it springs up spontaneously and would soon occupy the whole surface, if fostered and protected. The renewal of the forests on these hills can be greatly hastened by the planting of young trees in all open places, and by encouraging a dense growth of brambles, or such other shrubs as will spring up spontaneously, to protect the slopes from washing and secure a moist surface. To secure the introduction of new trees, the seeds may be planted, as soon as ripe, in the places where they are to grow, or they may be planted in nurseries and cultivated for one, two, or three years, and then transferred to the hills. As the nuts are liable to be destroyed by ground squirrels and other rodents, and as most of our nut bearing trees have long tap roots which are sure to be injured in transplanting, the better way will be to pack the nuts as soon as gathered in sand or garden soil where they will be exposed to the frosts of winter, and in the spring, planting them in the places where the trees are to grow, or else planting them out after one year's growth in the nursery. On these rock-covered hills the chestnut finds a congenial soil, makes a rapid growth, and, being renewed from the stump when cut, can be easily maintained in a permanent forest. When thus grown it is one of our most valuable trees for fence posts and railroad ties, and in a long series of years can be made to yield a crop from these unproductive, rocky hills, of equal value to that obtained from ordinary arable land, while hills thus covered will be sure to furnish perennial springs at their bases, which would disappear if the hills were cleared.

Our swamps also constitute a natural forest reserve. How far they should be reclaimed and drained is a difficult problem. They are the natural reservoirs to retain the surplus precipitation and to maintain the flow of water in the streams during drought. They are also the sources

of miasmatic diseases, and evaporation from their surfaces reduces the temperature and brings early frosts in their neighborhood. There are cogent reasons on the one hand calling for their preservation, and on the other, for their destruction. The processes of reclamation increase largely the miasmatic exhalations, which will cease only after thorough cultivation and drainage. While they remain, health and economy alike require that they should be covered with as heavy a forest growth as possible. To secure the best results, as in other forest reserves, the intrusion of cattle should be prevented, and the growth of the best varieties of timber encouraged, by gradually cutting out that which is worthless. If the swamps are reclaimed the function they perform in the drainage system, as well as that for a time performed by the root cavities in the cleared land, would in a great measure, be provided for by systematic under-drainage. Unless this substitute is provided, it is believed that the general reclamation of the swamps would be an injury. But deep under-draining would open up the soil to a great depth, cause the surface water to penetrate the earth, and flow off into the streams much more gradually, thus feeding the sources of the springs.

The systematic planting of new forests requires a careful study of the habits of the different forest trees, the conditions of forest growth, and a wise and provident regard for the wants of the distant future, which few are inclined to exhibit. When under-draining will double the average annual crops, farmers are much more inclined to employ their surplus income in the purchase of new lands than in the under-draining of what they have, because it increases more their visible wealth, and makes a better showing on the tax duplicate. But the successful pioneer in forest culture, as well as in under-draining, when each is needed, is a public benefactor, and receives a double reward. If a few will here and there make a successful beginning, the whole work will be assured.

Some of the most obvious conditions of forest growth are a congenial soil and a humid condition, both of the soil and of the air, during the season of most rapid growth. In the native forests natural selection secures the occupancy of the territory to the species to which the soil and the environment are most congenial, while continued occupancy of the soil by one species or family often renders it less and less fitted for their use, and better fitted for others that are waiting to take possession; so that a marked tendency to rotation, a crowding out of the old occupants and the introduction of new ones, is observed in all forests. In mixed forests these changes are gradual; in forests composed of one species or family, the change is often abrupt and complete. In artificial forest culture these tendencies should be carefully observed and their indications

followed. The species that are tending to crowd out the old occupants will be likely to succeed the best when artificially planted.

Natural agencies secure a humid condition of the soil and the air, in forests, by the dense undergrowth of shrubs and mosses, and by the thick coating of leaves which are carried into the hollows and ravines, obstructing the small water-courses, checking the surface flow, and surface erosion; while the roots of the trees forming a net-work on the surface and deeply penetrating the sub-soil, facilitate the downward descent of the water. Each tree struggling upward for the light takes a straight erect form, the growth being mainly concentrated in the trunk or body of the tree.

Failure in the artificial growth of forests is most likely to result from a want of this natural covering of the surface, which counteracts the effects of protracted drouths. It has often occurred in north-eastern Ohio that dense second growth groves of sugar-maple, of the age of twenty or twenty-five years, have been almost entirely destroyed by a single summer's drouth. In such seasons many trees in isolated groves, and in the open pastured forests, die for want of water. But it is believed that this never happens in the unbroken primitive forests of the State. To provide as far as possible a substitute for this natural protection of underbrush, mosses, and leaves, wherever practicable, the forests yet remaining should be made a nucleus around which the new forest is planted, thus securing a partial protection. But thick planting and the mulching of the surface with coarse manure, straw, or some substitute for these, until the ground is entirely shaded by the new growth, and until the falling leaves will suffice to cover the surface, will be found indispensable. It is true that, without these precautions, the young forest trees may maintain a vigorous growth for years, but they will almost surely perish under the influence of a protracted drouth, which cannot be foreseen, and can be effectually provided for only in this manner. No attempt to cultivate another crop between the rows of trees should be made. The whole strength of the soil and the care of the owner should be given to the growing forests. The thinning out should be gradual. This may be left to natural selection; but experiments show that the value of the forest is greatly increased by artificial pruning and thinning. As soon as the young forest has fairly monopolized the surface, those trimmings that are not of a useful size may be profitably left upon the ground to retain the fallen leaves in place and encourage the growth of mosses and underbrush. When the forest becomes so dense that sphagnous mosses can grow, the forest may be considered as established, and able to hold its own position.

Forests should be planted for all uses to which our native trees, or those readily acclimated, are adapted; but the surest returns will be obtained by consulting the most obvious wants, and those which can be provided for in the shortest time.

The largest permanent demand for timber of moderate size will be for railroad ties, and for fence posts and fencing. Fifteen millions of dollars are required each year for ties for the railroads already constructed in the United States and territories, and the cost of fencing material for the whole country must be vastly in excess of this.

The Erie Railway Company classifies timber for ties as follows:

First class—Second growth chestnut, white oak, burr oak, rock oak, yellow oak, black locust, and mulberry.

Second class—Butternut, cherry, red cedar, white cedar, yellow cedar, southern cyprus, black elm, rock maple, black oak, pitch pine, and black walnut.

Third class—Black birch, first growth, chestnut, northern cyprus, red elm, white hemlock, soft maple, red oak, tamarack, and yellow pine.

If the catalpa was added in first class, the list and classification might be considered as substantially correct, and where trees are planted with the main design of growing railroad ties and fencing posts, trees may well be selected substantially in the order above named, according as they are adapted to the locality, and the grounds to be planted.

An equally early return may be obtained from trees planted to obtain tough timber for wagon making, axe helves, and other wooden handles, and all uses for which small pieces of strong timber are required. For these uses hickory and white ash are best adapted; and, while generally it will probably be advisable to plant a mixed forest, a plantation exclusively of hickory can hardly fail to yield a profitable return. By selecting the most edible nuts of the shag bark variety, planting thickly, with rows not more than four feet apart, and with the trees not more than two feet apart in the row, in a very few years the harvest may begin by cutting hoop-poles, which will be removed from the stump, and produce a continuous yield, the larger thinnings making the very best of fire-wood, and by the time the plantation commences to yield timber for the purposes indicated above, the crop of nuts will be no insignificant part of the returns. The hickory should be planted where it is to grow, or if planted in nurseries should be transferred to the field after one year's growth. If deprived of the tap root in removal, the hickory requires many years to establish itself, and a large percentage will fail to grow. Nearly all nut-bearing trees exhibit more or less of the same characteristics, and, as they are very liable to be thrown out of the ground by the frosts of

the first winter, not being firmly anchored by lateral roots, the best results will doubtless be obtained by growing all these trees in the nursery for one year only, and then transferring them to the permanent plantation. The tap root is essential to firmly anchor the tree in its place, and to bring up moisture from the sub-soil, thus enabling the tree to endure protracted drouth.

But there are other uses for artificially-grown timber, in which the profits may be made much larger—the growing of ornamental woods for cabinet work and the inside finish of houses; and for this purpose there may be selected the black walnut, the butternut, the white ash, the chestnut, the soft maple, the catalpa for the southern half of the State, and probably some others. The arboriculturist who will be the first to gather a harvest of well-grown trees for these uses, will find that he has received a return for his labor, in money, to an amount which could not be equalled by any ordinary farm crops. The demand for such lumber to cut into veneers, would for years exhaust the supply, and prices would remain high until the market was fully stocked. In planting forests for all purposes, our whitewood (*lireodendron*), cucumber (*magnolia*), and other trees for ordinary sawing timber, should find a place with the white pine, which, it should be remembered, will grow on light, sandy soils too poor in humus for the growth of deciduous trees.

The sugar maple is not enumerated in the list of trees given above, but the maple sugar and syrup of the future will depend upon "sugar orchards" artificially planted, or upon the careful protection of the seedlings in the present forest reserves. The old trees are fast dying out, and in rare instances only are the young trees so cared for as to render them secure. There can be little doubt that ten or more acres of these trees, well established on a farm of ordinary size, even of a few years' growth, would add more to the saleable value of the farm than the cost of planting and caring for the plantation. The thorough protection of the remaining forests would, in most localities where this tree is now found, secure an abundance of young trees from the seedlings spontaneously appearing.

There are important considerations in favor of mixed forests in all new plantings. Different trees exhaust different ingredients from the soil, and it cannot, with certainty, be foreseen what varieties are best adapted to any particular locality. It is certain that a given area will support a more dense forest of different species of trees than of one only. There will also be much less danger from noxious insects. Almost every tree has its peculiar insect enemy, which will increase in proportion to the abundance and accessibility of its appropriate food, and a large plantation of one species of tree would naturally result in a large increase

in the number of the insects feeding upon it; and were it not for the presence of predaceous insects, subject to the same law of increase, systematic plantations would in many cases yield no beneficial results. The planting of the ordinary white locust as an ornamental tree, illustrates these facts. For some years it appeared to have no insect enemies; but in time the locust borer (*Olytus robinix*) appeared, and soon in so great numbers that its larvæ nearly destroyed a large per centage of the trees. They increased because their appropriate food was artificially increased. The predaceous insects which feed upon them also increased as their appropriate food increased, and soon reduced the number of the borers, so that the injury caused by them has again become insignificant. It is to be expected that new plantations of any forest tree will, in places, suffer from the increase of insect enemies; but natural causes will soon secure a nearly adjusted balance, and the evil will disappear.

The thick planting of trees and encouraging the growth of the "underbrush" in the forest reserves, which is now largely destroyed, will have another beneficial result, in increasing the number of our small insect-eating song birds. Within a comparatively few years their number has been greatly diminished, and largely because of the destruction of the thickets and shrubs, which are their favorite nesting places. Let these be permitted to grow in the forests, and they will again be vocal with the songs of the birds. They are also one of the natural checks to the undue increase of destructive insects, and we cannot, without great risk, dispense with their aid.

Very little has yet been done in Ohio toward renewing or increasing our forests. E. E. Barney, of Dayton, Ohio, has made some interesting experiments, and collected valuable facts in regard to the catalpa and its cultivation. Messrs. Storrs & Harrison, of Painesville, have made a specialty of the raising of chestnut seedlings, and can furnish them in large quantities, and at very cheap rates; and, generally, there is a growing interest in all matters pertaining to forest culture throughout the State. It is often a matter of boasting that there is no waste land in the State—that it is all susceptible of profitable cultivation. But if one-fourth of the surface was occupied by hills and mountains, so rocky and precipitous as to repel all attempts at their cultivation, and compel their reservation for forests alone, our future would be much more secure. The extensive "barrens" in many of the Southern States, supporting a meagre forest growth, with a soil so sterile that it will not pay for clearing and fencing, serve important climatic purposes, and tend to secure the perpetual value of the arable lands. Apparently better favored, we will suffer irremediable loss, if we are unwilling to devote a fair percentage of our "good lands" to the growth of forests.

METEOROLOGY.

RESULTS OF METEOROLOGICAL OBSERVATIONS MADE AT
URBANA, LAT. 40° 6' NORTH, LONG. 84° 43' WEST.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY MILO G. WILLIAMS.

EXPLANATIONS.

The observations were made in accordance with the methods of the Smithsonian Institution. The hours of observation were 7 A. M., 2 P. M., and 9 P. M.

Thermometer.—An observation is taken at sunrise, which is usually the minimum of the day. All other means are made from the daily observations. The means of the seasons are given in separate tables.

N. B.—All entries before 1852 are taken from the tables kept by Judge Reynolds.

Barometer.—The true height of the mercury is obtained by making the proper reductions; the record is made in inches and fractions of an inch.

Snow and Rain.—The number of days of rain and snow is given, together with the depth, in inches and fractions of an inch. The column of rain-fall includes the snow melted. The number of days on which there was *thunder* is given.

Clouds.—The degree of cloudiness is indicated by numbers, the scale being from 10 to 0—10 indicates cloudiness throughout the day; 5, one-half, and 0 entire clearness, and intermediate numbers in the same proportion. In the table for 1878, the number of observations each month is given for the eight points of the compass from which the clouds move.

Wind.—The force of the wind is on the same scale—0 being calm, 5 high wind, and 10 the most violent hurricanes. The course of the wind is given to eight points of the compass.

SUMMARY OF METEOROLOGICAL OBSERVATIONS TAKEN AT URBANA, FOR THE YEAR 1878.

1872.	Minimum temperature.		Day.	Maximum temperature.	Day.	Coldest day.	Mean of the coldest day.	Warmest day.	Mean of the warmest day.	Mean temperature of the month.	Minimum of barometer.	Maximum of barometer.	Mean barometer of the month.	Number of days of snow.	Quantity of snow.	Number of days of rain.	Quantity of the rain-fall.	Number of days wholly cloudy.	Number of days fair.	Number of days clear.	Thunder.
	Day.	Minimum temperature.																			
January.....	7th	—10	18th	53	7th	50	20th	45.00	29.87	25.42	29.35	28.850	7	19.77	7	4.06	6	9	2	0	
February.....	4th	—9	21st	60	4th	12.00	21st	53.00	32.64	28.18	29.21	28.770	4	9.35	4	2.53	7	9	4	1	
March.....	25th	18	29th	70	25th	27.50	9th	63.25	45.80	28.27	29.09	28.792	1	.00	15	3.65	2	11	2	2	
April.....	7th	30	22d	82	6th	45.50	23d	67.75	57.77	28.29	28.95	28.642	0	.00	7	3.30	9	13	1	4	
May.....	13th	32	2d	85	2d	46.50	2d	72.75	60.88	28.55	29.00	28.783	0	.00	11	3.28	8	12	0	3	
June.....	6th	47	30th	91	22d	53.75	29th	80.50	66.78	28.32	29.05	28.784	0	.00	8	3.79	3	14	5	4	
July.....	23d	52	17th	92	22d	66.75	17th	82.50	76.17	28.37	29.02	28.790	0	.00	7	6.16	0	21	3	7	
August.....	26th	53	4th	89	26th	65.75	9th	78.75	72.54	28.61	28.89	28.750	0	.00	10	5.27	0	17	4	8	
September.....	22d and 28th	41	7th and 8th	84	27th	52.25	20th	77.00	64.48	28.52	29.25	28.925	0	.00	8	3.33	1	14	7	1	
October.....	28th	23	1st	80	8th	31.00	1st	71.00	51.99	28.64	29.15	28.870	1	.50	9	2.85	1	12	8	1	
November.....	2d and 30th	22	6th	63	30th	30.50	6th	57.50	41.29	28.19	29.22	28.851	1	.35	8	2.96	3	14	4	0	
December.....	24th	—12	9th	45	24th	—1.50	1st	41.25	23.79	28.19	29.33	28.843	10	16.23	4	3.66	7	8	2	0	
Means and summaries										52.00	28.38	29.29	28.804	24	30.20	98	44.04	47	154	42	31

MEAN DEGREE OF FORCE OF THE WIND, AND THE COURSE FROM WHICH THEY COME,
FOR 1878.

1878.	Force.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Calm.
January	1.69	4	1	11	4	14	15	7	6	31
February	1.54	3	12	0	2	8	2	6	7	38
March	2.15	3	3	4	7	16	15	11	8	26
April	1.96	6	2	4	9	9	20	8	6	26
May	1.97	1	4	1	10	7	17	14	3	36
June	1.43	3	4	3	1	13	17	6	8	34
July	1.11	6	2	2	2	3	14	11	3	50
August	1.11	5	1	3	2	2	11	11	4	54
September	1.01	6	3	1	3	10	10	5	4	48
October	1.59	2	3	2	1	3	18	14	8	42
November	1.81	2	1	3	1	9	6	16	6	46
December	1.38	2	3	1	6	4	10	21	4	42
Means and sum.	1.51	43	39	35	49	98	161	130	67	473

MEAN DEGREE OF CLOUDS, AND THE COURSE FROM WHICH THEY COME, FOR 1878.
URBANA, OHIO.

1878.	Degree.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Doubtful.	Clear.
January	7.02	2	0	2	3	5	7	18	4	31	21
February	6.42	3	2	1	1	2	7	14	4	22	25
March	6.00	3	0	1	0	4	7	25	12	17	24
April	7.02	5	3	2	1	10	12	23	5	14	15
May	6.04	4	2	0	0	2	13	28	3	20	21
June	4.93	1	4	1	1	3	7	25	6	8	34
July	4.37	7	3	0	2	6	8	23	1	12	31
August	4.89	4	7	1	1	2	6	29	14	3	26
September	3.85	10	1	1	0	6	11	9	2	11	39
October	4.02	4	0	1	0	3	10	22	5	9	39
November	5.37	4	0	2	0	5	1	27	7	14	30
December	7.83	3	0	1	0	4	2	26	4	39	15
Means and sum.....	5.65	50	22	13	9	52	91	263	67	200	323

THE RECORDS OF THE THERMOMETER, BAROMETER, SNOW, RAIN, CLOUDS, AND WIND, FOR 27 YEARS, AT URBANA, OHIO.

Year.	Thermometer.			Barometer.			Snow.		Rain-fall.		Clouds, etc.					Wind.									
	Thermometer.		Annual mean of Thermometer.	Barometer.		Annual mean of Barometer.	No. of days snow.	Quantity of snow.	No. of days rain.	Quantity of water.	No. of days wholly cloudy.	No. of days fair.	No. of days clear.	No. of days thunder.	Degree of cloudiness.	Degree of force of wind.	No. days prevailing wind from North.	Wind.							
	Minimum of Thermometer.	Maximum of Thermometer.		Minimum of Barometer.	Maximum of Barometer.													North-east.	East.	South-east.	South.	South-west.	West.	North-west.	Calm.
1852.....	20	94	51.36	27.93	29.47	28.83	36	33.11	123	56.84	89	86	32	31	5.65	1.24	14	24	28	34	43	60	99	49	15
1853.....	2	92	51.67	27.94	29.31	28.87	37	28.82	91	45.30	59	183	30	35	5.32	1.63	37	36	16	11	45	73	80	51	16
1854.....	4	98	53.36	27.98	29.35	28.86	33	27.49	110	41.35	44	128	50	48	4.85	1.87	25	26	27	17	44	76	88	45	17
1855.....	6	95	50.29	27.80	29.43	28.83	40	47.46	129	52.47	69	192	35	48	5.72	2.33	11	22	9	41	59	91	79	44	9
1856.....	23	97	46.79	27.97	29.35	28.81	48	39.69	86	30.87	44	150	38	37	4.77	2.20	17	18	18	44	47	84	68	55	15
1857.....	19	93	48.53	27.91	29.50	28.86	43	32.59	115	39.77	63	130	44	33	5.08	2.08	11	23	19	36	62	73	46	20	10
1858.....	13	97	51.48	28.28	29.49	28.96	28	31.54	120	40.99	62	119	21	45	5.64	1.97	9	30	23	46	59	65	76	47	10
1859.....	10	96	51.20	28.16	29.33	28.96	34	31.70	112	36.57	78	115	26	45	5.61	2.24	18	29	13	49	74	69	76	31	6
1860.....	11	93	50.95	28.17	29.47	28.87	40	27.11	123	35.72	57	134	22	50	5.71	2.32	18	21	30	40	65	60	77	47	8
1861.....	1	95	50.62	28.06	29.44	28.87	29	17.54	115	36.33	49	133	31	...	5.35	1.89	21	29	19	35	49	82	82	43	12
1862.....	1	92	51.12	28.01	29.43	28.86	39	41.98	97	37.79	59	133	37	36	5.35	1.85	22	30	40	35	42	87	62	43	3
1863.....	1	93	51.48	28.12	29.04	28.87	45	47.40	92	36.56	59	140	29	28	5.04	1.65	32	19	21	31	65	70	57	42	35
1864.....	16	95	49.88	28.21	29.41	28.87	37	35.17	108	32.19	38	161	22	33	5.32	1.99	23	15	25	34	49	74	107	35	14
1865.....	3	94	51.25	28.20	29.41	28.89	38	39.75	111	46.04	23	140	33	43	5.37	1.95	30	13	18	24	60	66	86	36	12
1866.....	12	94	49.32	28.13	29.03	28.86	40	39.77	109	43.02	23	141	34	30	5.36	1.98	18	22	30	28	36	82	89	61	10
1867.....	15	94	50.50	28.04	29.02	28.89	43	39.09	108	46.31	45	143	34	30	5.36	1.72	24	13	20	28	36	82	89	61	10
1868.....	7	95	49.49	28.01	29.01	28.89	43	39.45	104	46.31	45	149	36	44	5.68	1.85	24	23	17	15	50	75	85	55	12
1869.....	13	95	52.06	27.90	29.36	28.83	44	43.72	84	49.71	45	139	37	33	5.73	1.81	24	21	10	14	43	99	107	37	10
1870.....	17	96	52.06	28.12	29.36	28.83	44	43.72	84	49.71	45	139	37	33	5.73	1.81	24	21	10	14	43	99	107	37	10
1871.....	17	96	52.06	28.12	29.36	28.83	44	43.72	84	49.71	45	139	37	33	5.73	1.81	24	21	10	14	43	99	107	37	10
1872.....	18	96	49.50	28.44	29.19	28.87	59	45.33	99	30.64	42	139	41	44	5.90	1.96	30	40	10	21	42	82	90	56	4
1873.....	18	96	49.50	28.44	29.19	28.87	59	45.33	99	30.64	42	139	41	44	5.90	1.96	30	40	10	21	42	82	90	56	4
1874.....	18	96	49.50	28.44	29.19	28.87	59	45.33	99	30.64	42	139	41	44	5.90	1.96	30	40	10	21	42	82	90	56	4
1875.....	11	93	52.83	28.49	29.23	28.84	46	37.00	97	37.17	64	116	43	38	5.36	1.81	13	29	10	26	49	119	68	38	44
1876.....	14	93	48.30	28.42	29.20	28.86	35	26.86	75	34.03	72	140	43	35	5.13	2.03	20	32	28	26	49	119	68	44	10
1877.....	11	93	48.30	28.42	29.20	28.86	35	26.86	75	34.03	72	140	43	35	5.13	2.03	20	32	28	26	49	119	68	44	10
1878.....	12	91	51.16	28.06	29.44	28.85	37	41.53	109	43.16	50	130	32	31	5.61	1.79	24	31	15	27	43	107	70	34	17
1879.....	12	91	51.16	28.06	29.44	28.85	37	41.53	109	43.16	50	130	32	31	5.61	1.79	24	31	15	27	43	107	70	34	17
1880.....	12	92	52.00	28.18	29.33	28.80	24	39.30	98	44.04	47	134	42	31	5.65	1.65	25	39	14	30	56	99	50	35	17
1881.....	12	92	52.00	28.18	29.33	28.80	24	39.30	98	44.04	47	134	42	31	5.65	1.51	22	19	15	22	50	95	81	34	27
Means.....	.....	.....	50.77	.....	.....	28.86	38	34.28	104	39.83	54	135	34	36	5.42	1.90	22	25	19	67	50	83	81	43	13

MINIMUM, MAXIMUM, AND MEAN TEMPERATURE OF THE WINTER MONTHS—1832 TO 1878, INCLUSIVE; ALSO, THE MEAN OF THE WINTER MONTHS, AT URBANA.

Years.	January.			February.			December.			Mean of the three months.
	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	
1832	-5	58	33.17	-6	53	.....	14	50	25.41	23.50
1833	6	59	33.77	10	55	30.50	21	48	35.34	33.20
1834	-6	49	19.73	24	64	38.89	18	49	32.80	30.47
1835	4	51	31.69	-17	46	20.06	10	53	29.66	27.14
1836	1	48	38.84	-4	53	23.47	3	52	28.16	30.16
1837	6	49	23.78	-6	54	33.68	9	65	31.75	29.74
1838	8	64	34.78	-16	36	19.42	-4	46	24.70	26.30
1839	7	65	31.72	1	52	31.95	19	48	31.91	31.89
1840	-5	46	22.52	10	52	41.10	5	52	29.91	31.18
1841	-11	50	28.58	1	53	30.28	12	62	32.84	30.57
1842	10	61	35.10	2	61	33.83	2	58	30.66	33.19
1843	4	66	35.71	-6	51	22.22	12	62	35.23	31.05
1844	-3	51	28.79	11	56	33.90	14	57	33.36	32.08
1845	14	57	33.97	9	63	36.36	-4	46	23.94	31.42
1846	-6	56	32.26	-2	51	38.36	13	62	35.13	35.25
1847	-6	58	24.29	6	56	31.12	-2	59	32.07	29.16
1848	-16	60	35.32	12	55	34.31	15	66	37.23	35.65
1849	2	55	28.00	-6	61	28.08	2	50	29.13	28.40
1850	5	55	33.81	-16	55	32.61	-9	56	31.39	32.57
1851	1	57	31.51	10	57	42.01	-12	58	27.42	33.65
1852	-20	51	19.94	10	54	32.38	18	56	36.74	30.33
1853	7	54	32.95	-5	52	32.60	6	52	31.40	33.32
1854	-8	59	29.46	10	61	35.62	4	55	30.85	31.98
1855	-6	61	29.55	-5	52	22.53	-5	50	28.77	26.95
1856	-23	42	14.39	-22	50	19.32	-4	50	21.93	18.55
1857	-19	37	14.37	-4	70	38.95	18	60	35.87	29.73
1858	18	60	36.45	-13	54	22.70	5	55	37.05	32.08
1859	-6	52	29.19	7	62	32.17	-10	62	22.00	27.98
1860	-11	57	29.11	0	66	30.61	5	43	26.23	28.65
1861	3	46	27.26	1	70	36.71	12	68	36.20	33.39
1862	9	58	29.03	-2	52	28.06	5	64	33.55	30.21
1863	1	56	32.70	5	60	32.98	3	55	32.92	32.37
1864	-16	64	25.11	-6	62	30.30	-4	57	27.71	27.71
1865	-5	42	18.55	2	50	30.08	1	64	31.30	27.11
1866	-2	61	25.81	-12	58	26.27	-9	51	26.46	26.18
1867	-15	46	17.89	-10	58	34.34	4	64	28.57	26.93
1868	-7	48	21.75	-4	49	25.09	-6	50	25.70	24.18
1869	16	58	33.38	8	66	32.88	15	49	31.54	32.60
1870	-4	54	29.90	-7	55	29.07	-12	53	26.93	28.63
1871	10	62	31.27	9	65	33.15	-17	60	26.25	30.22
1872	-8	43	24.13	-12	52	26.80	-18	43	20.20	23.71
1873	-26	56	22.90	-5	59	27.25	12	69	34.86	28.24
1874	-3	66	31.98	0	54	32.35	10	57	33.65	32.66
1875	-14	41	19.08	-16	64	19.04	0	69	38.78	25.63
1876	9	70	36.19	2	68	34.17	-12	48	19.73	30.03
1877	-20	56	23.94	18	60	35.33	14	67	41.86	33.71
1878	-10	53	29.87	-2	60	32.64	-12	45	23.79	29.77
Means	28.37			30.67			30.38			29.76

MINIMUM, MAXIMUM, AND MEAN TEMPERATURE OF THE THREE SPRING MONTHS; ALSO
THE MEAN OF THE SPRING MONTHS AT URBANA, OHIO, FOR FORTY-SEVEN YEARS.

Year.	March.			April.			May.			Mean of Spring.
	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	
1832	10	69	43.81	32	79	50.70	40	81	60.48	51.69
1833	3	67	39.69	32	80	56.04	50	81	66.54	54.09
1834	22	68	42.84	30	77	55.57	34	84	58.61	52.34
1835	-7	63	39.24	25	77	54.52	34	87	65.21	52.99
1836	-4	57	34.10	31	80	53.45	40	82	64.42	50.66
1837	16	66	39.72	28	83	45.48	36	85	59.33	48.18
1838	8	75	39.99	24	79	46.11	30	76	53.85	46.65
1839	-15	69	39.53	30	78	57.05	30	86	59.83	52.14
1840	16	74	45.77	27	70	55.37	42	82	62.12	54.42
1841	8	78	40.97	31	75	50.00	33	85	59.01	50.00
1842	26	76	48.98	35	80	56.30	38	75	58.72	54.63
1843	-2	48	21.47	28	75	49.06	36	82	59.55	43.36
1844	16	66	40.24	28	79	59.56	35	83	63.43	54.41
1845	20	75	42.72	18	80	56.50	32	83	60.23	53.15
1846	6	62	42.24	28	83	54.08	41	84	65.00	53.77
1847	10	61	36.88	25	76	51.50	37	79	60.51	49.63
1848	4	78	39.37	27	76	56.08	40	84	63.61	53.02
1849	25	65	42.82	22	81	48.60	40	80	60.56	50.66
1850	2	59	38.12	25	72	46.02	34	81	57.35	47.16
1851	20	69	45.06	30	71	48.98	28	86	63.68	52.57
1852	10	72	42.04	27	84	48.98	33	85	63.22	51.41
1853	15	67	38.66	30	76	50.56	36	87	60.30	49.84
1854	21	70	43.77	27	85	50.96	37	86	62.84	52.52
1855	-1	59	32.80	17	90	53.38	32	91	62.63	49.60
1856	-8	57	27.34	21	84	52.52	29	92	58.81	46.22
1857	-7	75	34.35	14	71	39.56	29	86	56.93	43.28
1858	-3	74	38.73	25	80	49.30	32	83	59.00	49.01
1859	18	70	45.60	26	79	48.00	37	88	66.10	53.23
1860	19	72	42.14	25	84	51.62	34	90	66.23	53.33
1861	-----	-----	37.60	-----	-----	50.58	-----	-----	61.70	49.96
1862	13	68	37.66	30	76	50.93	34	84	61.28	49.96
1863	18	70	36.60	20	76	50.60	40	86	64.57	50.59
1864	6	69	35.73	28	75	46.84	31	88	62.60	48.39
1865	8	72	43.44	27	78	53.07	32	86	61.64	52.72
1866	8	64	34.96	25	82	55.77	30	88	58.73	49.82
1867	0	67	31.86	26	76	51.17	33	82	55.37	46.13
1868	0	72	42.61	17	76	46.66	34	83	60.26	49.84
1869	1	71	32.00	21	77	48.42	35	86	59.16	46.53
1870	10	58	35.25	32	84	53.77	40	89	65.56	51.53
1871	26	74	46.85	30	80	56.43	37	91	64.44	55.91
1872	4	60	31.80	25	85	53.74	32	87	63.44	49.66
1873	-10	66	35.41	30	86	49.93	37	89	63.40	49.58
1874	17	66	39.38	20	74	43.80	34	94	65.30	49.49
1875	1	79	35.47	13	82	46.77	32	93	61.79	48.01
1876	4	73	35.40	29	79	50.32	27	90	64.23	49.98
1877	5	70	33.86	27	81	52.02	30	94	59.16	48.35
1878	18	70	45.80	30	82	57.77	32	85	60.88	54.82
Means..			38.73			50.37			61.50	50.53

MINIMUM, MAXIMUM, AND MEAN TEMPERATURES OF THE SUMMER MONTHS AT URBANA,
OHIO, FOR FORTY-SEVEN YEARS.

Years.	June.			July.			August.			Mean of three months.
	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	
1832	45	87	68.36	53	88	71.50	53	78	63.34	69.40
1833	49	83	68.57	52	91	73.20	50	87	70.11	70.63
1834	46	85	68.95	59	93	75.96	50	92	72.96	72.62
1835	45	80	67.98	44	84	68.84	49	82	66.64	67.81
1836	53	85	67.64	58	87	72.20	46	81	68.67	69.50
1837	49	84	66.41	54	88	72.07	47	87	70.63	69.70
1838	50	85	70.69	54	92	75.45	57	91	73.98	73.37
1839	45	85	62.29	48	90	69.91	47	90	67.82	66.67
1840	45	84	67.23	48	88	69.94	48	90	68.58	68.58
1841	50	88	73.27	53	89	71.71	50	87	70.24	71.74
1842	39	84	64.87	50	88	72.22	47	84	69.92	69.00
1843	39	89	66.53	49	92	72.41	50	85	71.54	70.16
1844	51	84	68.80	57	88	73.25	51	86	69.21	70.62
1845	48	88	70.02	49	88	71.69	54	85	74.32	72.01
1846	47	85	66.56	43	93	72.67	56	83	73.73	70.99
1847	48	84	68.89	50	84	70.32	47	85	67.71	68.97
1848	45	88	68.61	50	84	68.37	53	87	69.37	68.78
1849	53	89	71.12	55	88	72.26	53	83	70.53	71.30
1850	45	85	70.75	57	90	76.56	50	87	72.68	73.33
1851	46	85	66.80	52	89	72.16	49	84	67.96	68.98
1852	39	90	68.28	47	94	74.81	46	89	71.65	71.58
1853	49	92	73.50	52	89	70.70	46	91	71.21	71.80
1854	44	93	70.85	55	97	77.53	46	97	74.35	74.24
1855	41	94	67.12	55	95	75.08	46	92	72.50	71.57
1856	45	97	71.73	47	96	75.05	34	91	66.66	71.15
1857	44	91	67.98	45	92	72.84	47	93	71.70	70.84
1858	43	97	73.40	51	90	73.39	41	94	71.83	72.87
1859	33	92	67.93	44	96	74.70	41	95	71.28	71.30
1860	46	93	69.77	48	90	72.73	44	92	71.68	71.29
1861	45	88	70.42	51	89	73.40	47	88	71.85	71.89
1862	47	88	66.70	52	92	73.35	43	91	72.45	70.83
1863	49	92	68.15	45	92	74.03	35	93	72.61	71.60
1864	43	95	70.25	48	95	74.52	45	95	72.56	72.44
1865	50	90	74.50	48	91	71.81	44	86	69.70	72.00
1866	42	88	69.31	55	91	75.46	43	82	65.44	70.07
1867	52	90	73.25	50	91	73.69	44	93	73.08	73.41
1868	44	89	69.59	58	96	80.48	50	87	71.45	73.24
1869	40	85	68.32	52	93	72.75	48	92	73.92	71.66
1870	51	93	70.79	53	94	76.26	50	95	73.13	73.29
1871	49	90	71.41	46	93	72.67	48	96	74.68	72.92
1872	48	93	71.83	59	96	76.80	46	92	74.03	74.22
1873	50	94	73.92	52	91	73.93	51	93	72.95	73.60
1874	40	95	75.20	50	90	75.21	50	98	74.43	74.36
1875	44	90	68.60	55	92	73.37	49	85	67.81	69.90
1876	50	89	71.57	49	91	75.19	48	89	64.50	70.42
1877	48	88	69.63	50	89	73.17	50	92	71.24	71.35
1878	47	91	66.78	52	92	76.17	53	89	72.56	72.83
Means.....			69.43			73.49			71.03	71.38

MINIMUM, MAXIMUM, AND MEAN OF EACH FALL MONTH; ALSO THE MEAN OF THE THREE FALL MONTHS AT URBANA, OHIO, FOR FORTY-SEVEN YEARS.

Years.	September.			October.			November.			Mean of Autumn.
	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	
1832.....	39	84	57.98	37	80	56.85	27	72	44.63	53.15
1833.....	45	85	64.83	21	71	51.38	16	63	42.68	52.96
1834.....	31	82	63.37	30	73	51.15	27	70	43.00	52.51
1835.....	35	80	55.75	33	74	52.31	7	65	39.57	43.19
1836.....	41	83	68.42	26	71	45.44	15	61	36.84	50.23
1837.....	42	83	63.47	29	76	56.09	20	66	44.38	54.65
1838.....	39	81	60.48	28	77	47.02	7	60	32.93	46.81
1839.....	28	78	59.20	29	78	57.19	0	53	33.58	50.19
1840.....	34	77	57.07	21	75	55.65	18	65	40.85	51.19
1841.....	42	85	66.28	27	75	48.30	16	75	42.15	52.24
1842.....	36	86	66.43	27	76	51.84	7	71	33.83	50.70
1843.....	42	88	67.37	18	68	48.22	19	61	38.30	51.29
1844.....	39	82	64.66	24	71	48.19	15	67	42.70	51.85
1845.....	40	80	64.00	23	72	50.42	10	65	40.81	51.74
1846.....	41	87	69.93	26	77	56.06	18	66	45.23	57.07
1847.....	35	87	62.01	22	73	49.10	17	68	43.75	51.64
1848.....	33	82	59.05	28	70	51.26	18	53	35.51	48.60
1849.....	38	81	62.46	33	67	47.41	22	72	49.10	52.99
1850.....	38	83	64.91	29	73	50.85	21	72	43.48	53.08
1851.....	41	90	66.68	24	76	52.14	24	69	38.96	52.59
1852.....	40	82	62.70	33	70	58.60	26	67	38.70	53.33
1853.....	41	87	63.98	30	72	48.61	24	66	45.57	52.72
1854.....	37	98	70.00	28	77	55.27	22	59	38.78	54.68
1855.....	38	90	67.22	25	75	49.03	19	68	42.95	53.07
1856.....	33	92	62.10	25	89	53.35	11	71	38.28	51.24
1857.....	30	91	65.40	21	74	50.00	11	70	35.44	50.29
1858.....	35	90	64.99	31	86	55.50	13	59	35.36	51.95
1859.....	39	82	63.16	20	80	47.90	17	72	43.70	51.59
1860.....	36	85	60.90	26	80	53.50	3	73	36.90	50.43
1861.....	.....	.....	64.80	.....	.....	50.42	21	66	39.88	51.70
1862.....	34	92	66.80	20	86	54.21	20	71	39.41	53.47
1863.....	30	88	62.65	24	80	47.41	9	70	42.67	50.91
1864.....	39	80	63.12	26	68	48.80	10	68	41.09	51.00
1865.....	45	88	72.37	29	76	50.00	22	71	38.58	53.65
1866.....	36	82	61.78	28	75	53.38	22	59	40.86	52.01
1867.....	39	91	68.10	29	80	54.70	8	71	45.11	55.97
1868.....	32	81	60.46	19	75	49.38	21	70	40.42	50.09
1869.....	36	88	65.20	20	75	43.74	16	67	34.50	47.81
1870.....	47	92	68.95	34	76	54.86	23	69	40.38	54.73
1871.....	31	87	61.54	24	84	55.55	3	62	37.01	51.37
1872.....	35	92	66.37	29	86	52.18	1	61	33.75	50.77
1873.....	33	90	63.05	24	84	48.83	9	58	34.12	48.67
1874.....	40	95	68.94	25	79	53.44	11	73	29.82	50.73
1875.....	32	88	61.30	27	75	50.01	15	59	37.56	49.62
1876.....	41	81	63.50	24	77	49.34	17	76	40.53	51.12
1877.....	44	88	64.92	33	87	56.25	11	62	40.39	53.85
1878.....	41	84	64.43	23	80	51.99	22	63	41.29	52.59
Means..	62.71			50.68			39.68			50.90

**MINES, MINING, MANUFACTURING,
BUILDING,
LABOR, AND COMMERCIAL INTERESTS OF OHIO.**

GENERAL GEOLOGY OF THE COUNTIES OF COLUMBIANA, STARK, AND TUSCARAWAS.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY COL. CHAS. WHITTLESEY.

STRATA BELOW THE CO. L.

Until it is definitely settled what is Portage and Chemung in Pennsylvania, to the Ohio line, those terms cannot be used with much certainty in this State

The paleontologists have lowered the line of the carboniferous here, until it lies below both of them.

Stratigraphically, the following arrangement seems to me the nearest approach to a solution :

First.—Beneath the coal a “*conglomerate group*,” embracing the pebbly sand rock, the shales, and the Berea grit, which frequently has pebbles of quartz. Going southerly these graduate into the Logan of Professor Andrews, and include the Maxville limestone, all of which are irregular, but belong to the sub-carboniferous series.

Second.—The “*Waverly Group*,” embracing the flags and shales below the Berea grit, to the black or Huron shale. This is characterized by sandstone layers of a finer grain ; a greenish-yellow color, and occasional pebbles, rapidly passing into olive or light-green shales, with thin plates of iron ore and ferruginous sandstone. The local subdivisions of these two groups, from the Lake to the Ohio River, yet remain to be worked up.

We must keep constantly in mind the distinction between the general dip of the strata and their local irregularities.

Locally they all present curved and warped surfaces ; producing basins, troughs, mounds, and ridges, of no regular pattern.

Taking the lowest places in these basins, representing the sumps and swamps of the mines, over large spaces ; the elevations of such points show an inclination quite regular as to direction, but differing materially as to the amount or rate of inclination. Whenever we fix the elevation of three such points, we have a plane of dip for the space represented. Until this is done, there is ample room for mistakes in the identification of strata. Any survey where these data are neglected will soon require

rectification. It is much easier to arrange them conjecturally, but quite unsafe. It would be reasonable to conclude that the upheavals of the Alleghany mountain chains, which occurred after the carboniferous epoch, would produce undulations, folds, or disturbances in the Ohio coal strata, but a close examination does not sustain such an hypothesis. The irregularities visible in these beds appear to be due to currents of deposition, which swept about in channels and eddies, producing ridges and hollows on the ancient bottom, as the ocean waters do now.

Beds of sandstone and shale are the most irregular of the series. Those of limestone, iron ore, and coal, are more persistent, because their deposit is due not only to mechanical sediments, but to chemical attraction and segregation. The shales and the sandstones are almost without chemical affinities, and were deposited by currents, with a variable force, acting without system. The mineral substances with which the carboniferous seas were charged, sank in comparatively quiet and muddy waters, and therefore with more regularity than the earthy matters; but in neither case with perfect uniformity. Theoretically the thin mineral strata should be, and in fact are, about equally persistent; but it is not safe to assume that any of them are identical with other beds of the same minerological character, until the connection is made out by close examination in the field.

We have now all the facts we are likely to have for many years to come, relating to the physical geology of Ohio. Whoever looks through the reports on economical geology, in the coal-producing counties of the north-eastern district, will be unable to reach satisfactory conclusions.

A comparison of the profiles and of the text, where it relates to stratigraphy, will show numerous contradictions.

For the purpose of testing the theory of the persistence of *Coal Seam No. 6*, and of the *Putnam Hill limestone*, I have made a comparison of the vertical sections over a large part of the region. I give, in the form of skeleton profiles, the results of this comparison. To do this fairly, I assume, with the reports, that No. 6 is persistent, and use it as an horizon, bringing the other coal and limestone beds into their physical relations on that theory.

I think this comparison, thoroughly carried out, would show that No. 6 and the Putnam Hill limestone cannot both be persistent. If one is, the other is not.

After studying this subject since 1837, doing, I believe, as much field work as any other geologist has bestowed upon it, I am not able to say that any one of the coal seams of the lower series is continuous. At least it has not been demonstrated to be so, by exact physical profiles. Between

the typical No. 6 coal, in the valley of the Tuscarawas and that of the valley of Little Beaver, facts are lacking to demonstrate their identity.

The Yellow Creek series is connected with these two valleys, as yet, only by a plausible hypothesis. From Zoar down the Tuscarawas to Coshocton, at the confluence of that stream with the Walhonding, forming the Muskingum, Nos. 5 and 6 are in place, though in several places the elevation is fifty to sixty feet too low. From the southerly part of Coshocton county to the middle of Muskingum and Licking, the connection of No. 6. with the upper New Lexington seam is yet to be proven.

To make these comparisons I am obliged to use a very small scale of profile, and to be content with only a few sections. A large part of them are taken from the official reports. Groups Nos. 1, 2, and 3 follow in regular order, from the State line, through Columbiana, Stark, Carroll, and Tuscarawas counties, to Muskingum. If put together, end to end, they would form a profile of the beds of limestone and coal, for the lower coal series, half way across the State.

Figure No. 1 shows, everywhere in Columbiana county, No. 3 limestone not far below No. 6 coal.

Figure No. 2, sections *a* and *b*, in Carroll county, show No. 5 coal to have a limestone roof, which, possibly, represents the white lime-rock of Columbiana. The other official sections, *c*, *d*, *e*, *f*, *h*, *i*, do not show it. Between the Zoar section, *Figure No. 2, f*, which is typical for No. 6 coal, and the Zanesville section, *Figure No. 3, g*, typical for the "Putnam Hill limestone," there is represented a space of about fifty miles, in a direct line. The local sections of the reports for this space show, in places, two, three, and four beds of limestone beneath Nos. 5 and 6 coal. Probably a thorough exploration would bring out three seams over most of this space. Beginning at Navarre, in Stark county, Nos. 1, 2, and 3 are found in regular order, on both sides of the river; also at the forks of Sugar Creek, and thence, wherever the valleys are deep enough for them, over the summit, southerly, towards Coshocton, full half way to Zanesville.

I insert below a tabulated list of elevations at points where the three beds of lime-rock are found in the same hill.

FIGURE 1.—GROUPED SECTIONS, COLUMBIANA COUNTY, OHIO.
(Vertical scale $\frac{1}{4}$ inch to 100 feet; 530' A. elevation above Lake Erie.)

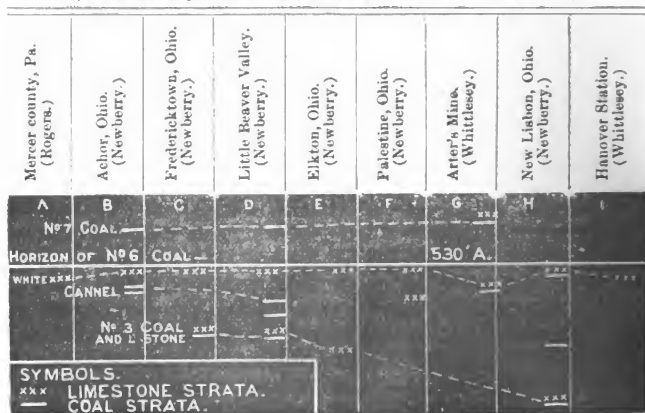


FIGURE 2—GROUPED SECTIONS, STARK, CARROLL, AND TUSCARAWAS COUNTIES.
(Scale and symbols same as in No. 1.)

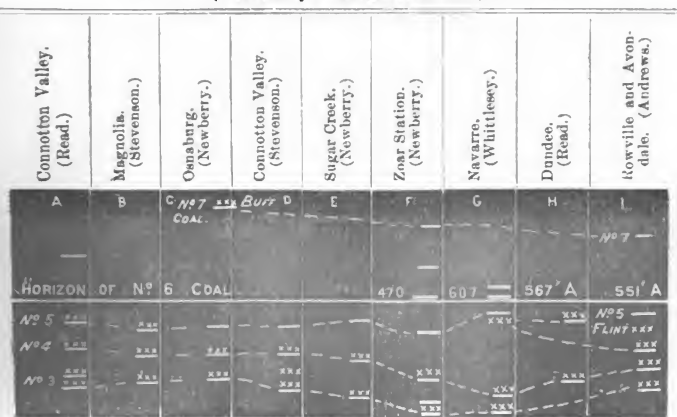
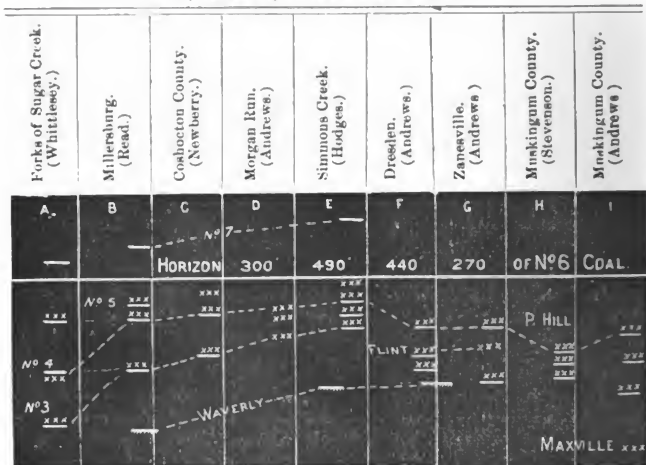


FIGURE 3.—GROUPED SECTIONS, TUSCARAWAS, COSHOCTON, AND MUSKINGUM.

(Scale and symbols same as in No. 1.)



This upper bed, or No. 3, not having entered into the official observations, the premises being false, the conclusions must of necessity be wrong. The question arises, to which of the three beds on Sugar Creek shall the typical Putnam Hill limestone be attached? Is it the equivalent of any of them? The connections I have made, by dotted lines in Figure No. 3, are not to be regarded as conclusive; they are simply official. It is much more probable that it should be connected with No. 3 limestone.

No. 2, or the "gray limestone," cannot be forced into the position of the Putnam Hill in the present state of information.

If the gray limestone of Tuscarawas could be shown to be the same as Prof. Andrews' typical Putnam Hill, this chasm would be bridged over. As yet only a few of the timbers are set up, and at points not in close relation to each other.

The Upper New Lexington seam, at Zanesville, assumed to be No. 6, is continuous to the Hocking Valley at Nelsonville, where it passes beneath the highlands that continue to the Ohio River. In this space, the number and the equivalency of the beds has been a subject of much discussion. As Prof. Andrews has devoted more time to this field than any other geologist, and his local sections are more numerous than all others, it is reasonable that we give most weight to his opinions.

By reference to Figure No. 4, the position of the three limestones will be understood, over a space of forty miles. All of the regular beds have coal under them, which is not represented on account of the small scale I am obliged to adopt. All of them have bunches and layers of flint, which sometimes extend to the entire thickness of the stratum. As groups, the three limestones and the three coals above them, Nos. 5, 6, and 7, are quite regular. Coals over limestones, so far as I have observed, have shale beneath, never resting upon the lime-rock, while coal seams underneath the lime-rock are without this intervening shale—the limestone forming the roof.

For the Sugar Creek Valley, the following arrangement fits better with the official nomenclature, than any other which I can devise on present information:

FIRST—COAL.

At the base of the series, Coal No. 1, beneath the shale underlying the "Massillon sandstone." Immediately beneath this sand rock is an irregular show of coal, of no practical value, known as No. 2.

SECOND—LIMESTONE AND COAL.

Limestone, No. 1, forming the roof of Coal No. 3; the coal often wanting and seldom workable. This limestone is frequently overlaid by iron ore. The place of Coal No. 1 is about one hundred and sixty feet below this limestone.

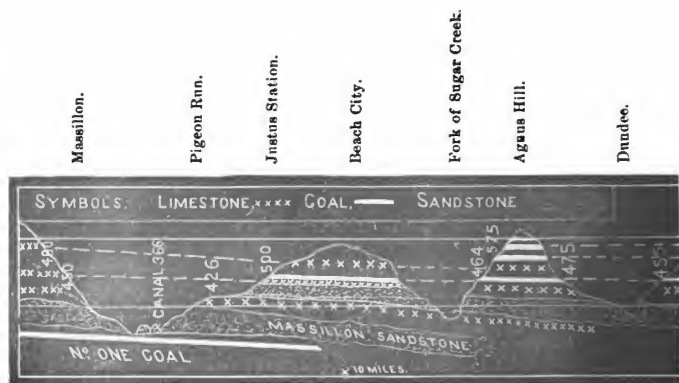
THIRD—SANDSTONE.

The second, or "Deardorff Sandstone," is very irregular in thickness. Beneath it there is occasionally a bed of thin irregular coal, sometimes called No 3a, and also No. 4. It may be seen at Sheplar's, at Zoar Station, and at the forks of Sugar Creek. Between it and the Massillon Sandstone there is a black or dark colored shale of considerable thickness. In the published profiles, this sandstone is confounded with the Massillon, the top of which is forty to fifty feet below.

FOURTH—LIMESTONE AND COAL.

Limestone No. 2, over Coal No. 4, which is probably not "Putnam Hill." In places there are both coal and fire-clay beneath this limestone. Between Limestone Nos. 2 and 3 there is another bed of sandstone, thirty to eighty feet thick.

FIGURE No. 4.—OUTLINE PROFILE FROM MASSILLON,
[Distance, 40 miles. Scale, horizontal, 440 miles to an inch



FIFTH—COAL.

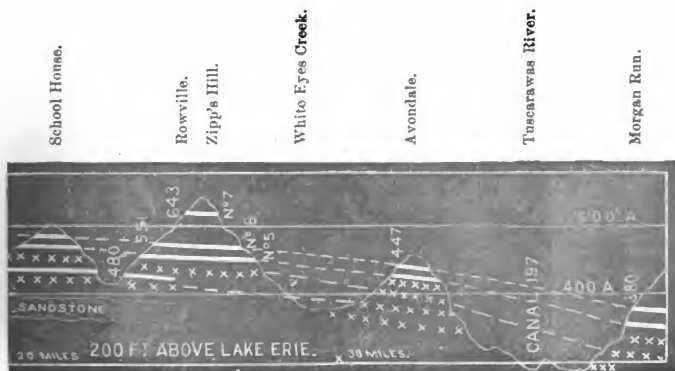
A bed of coal, three to four feet thick, ten to thirty feet above the last named stratum of limestone, which is of good quality for general uses, is opened at Fisher's mine, near Justus Station, five hundred feet above Lake Erie, also, near Bolivar, and at Weimars, 488' A, Agnus Hill, 476', Dundee, Barr's Mill, and around Shanesville, near which it passes beneath drainage.

SIXTH—LIMESTONE AND COAL.

Within a vertical interval of seventy-five to ninety feet, Limestone No. 3 comes in, over which in some places is a heavy sand-rock, in others a heavy bed of shale.

This corresponds to the white lime-rock of Columbiana county, and resembles the Putnam Hill, in being the first beneath Coal Nos. 5 and 6. It does not everywhere carry coal beneath it, but as it does in some places, and also fire-clay, in accordance with the Ohio system it should have a place among the numbers. At Avondale, all three of the limestones and their underlying coals are seen, according to Prof. Andrews, in regular order, but compressed into a vertical space of only sixty-eight feet. There is, besides, a bed of flint next below Coal No. 5, and, below all, a sandstone.

THROUGH SUGAR CREEK VALLEY, TO COSHOCTON.
vertical, 400 feet. Elevation in figures.]



SEVENTH—COAL NO. 5.

Generally, within thirty feet of the third limestone, there is a bed of coal corresponding to No. 5 of the reports. It is not everywhere workable; but, within a few feet above it, there is frequently a show of iron ore, often in great force. A heavy bed of dark brownish red shales occupies most of the space from No. 3 Limestone to No. 6 Coal, well charged with ores of iron. This bed is above the Limestone Group. It is an error to place this seam beneath the No. 3 Limestone.

EIGHTH—COAL NO. 6.

Twenty to thirty feet above No. 5 is the most regular and valuable coal of the series in northern Ohio. It ranges from $3\frac{1}{2}$ to $4\frac{1}{2}$ feet in thickness. Generally, after passing a light bed of shale, there is over it a heavy stratum, of irregular thickness, known as the "Mahoning" sandstone.

NINTH—COAL NO. 7.

From ninety to one hundred feet above Coal No. 6, No. 7 comes in, capping the hills, above which is the well-known horizon of *blackband* and *mountain ore*. The coal is of very little value, except for calcining the ore which overlies it. Above it there is, in some places, a lime-rock,

having a blue, buff or white color, but it is not as regular as the lime-rocks lower in the series. The area of this coal is comparatively small. At Sander's Mine, west of the Kilbuck, and at Trenton, on the Tuscarawas, may be seen a blue lime rock between Coal Nos. 6 and 7, which is probably local.

The sections at Zoar, Mineral Point, the tunnel, on the Pittsburgh Branch Railroad, and near Magnolia, are quite diverse, and, therefore, not reliable, as representing a type of the series. The one made with an engineer's level by Mr. Jones and myself, near Navarre, comes much nearer to a typical section.

Since Profile No. 4 was engraved, the railway company has taken additional side levels to the beds of limestone, iron ore, and coal in Sugar Creek Valley. These have disclosed more of the irregularities in the surface and the thickness of the Deardorf sandstone. At Wm. Adams's a mile and a half north of Dundee, its surface is 460' A., with a thickness of about fifty feet. At Graber's old mill, one and one-half miles north-west, it rises to 488' A., with a thickness of about one hundred and eight feet. Four miles southerly, at Barr's Mill, it has sunk to four hundred feet, thickness not seen, and at School-house No. 7, three miles further south, rises to 462'.

The middle limestone conforms in part to these depressions, and in places is cut out by the elevations. At Adams's, it is 472'; at Barr's Mill, 413'; and at Shanesville, 454'. The Fisher Coal does not conform as closely to the sandstone as the lime rock. At Adams's it is about 484', at Barr's Mill about 463', and at Shanesville 458'.

Across the valley, east from Shanesville, on the land of Ben Hochstetler, about twenty-five feet above the Upper Limestone, a fourth lime-rock exists, which extends southerly to within a mile of Rowville, but was not seen on the west side of the valley, and is doubtless local. In places it is eight feet thick, and produces the whitest lime I have seen in the coal series. It is loosely bedded, coming out in thin, rough slabs, of a gray color. Two miles south of the Rowville Summit, I saw a lime-rock about twenty-five feet above Coal No. 6, corresponding to what I have noticed above this seam at Sander's mine, west of the Kilbuck, and at Trenton, on the Tuscarawas, of which I find no mention in the reports. On the west side of Sugar Creek Valley, there is a very great change in the sandstone beds, both above and below Coal Nos. 5 and 6.

These upper coal seams and their shales are the most uniform strata of this region. On the eastern side of the valley, the so-called Mahoning sandstone is slaty, and seldom visible, and in its place are heavy beds of shale.

The typical Putnam Hill Limestone is at Putnam, opposite Zanesville, eighty feet below the Upper New Lexington, Great Seam, or Nelsonville Coal, as it is variously called. Here this lime-rock lies about eighty feet above the channel of the Muskingum River, and one hundred and ninety feet above Lake Erie. Prof. Andrews has traced it northerly up the valley to a point eight miles north of Dresden. The detailed sections made by himself and Mr. Jones at Morgan Run, near Coshocton, do not fix the places of the Putnam Hill Lime-rock, with certainty; nor of the so-called Coal No. 6. Those made by Prof. Newberry in the valley of Simmons's Creek, eight miles west of Coshocton, do not determine its position there, nor do those of Prof. Stevenson and Prof. Read in the valley of the Licking. More physical sections and closer comparisons are necessary to demonstrate the position of the Putnam Hill Limestone in Coshocton county. For the purposes of this paper, I assume that No. 3 Limestone of the Avondale Profiles, made with strict accuracy by Prof. Andrews and Mr. H. D. Dennis, is the Putnam Hill, 384 A. L. E.

As all the profiles show a different number of seams of coal and beds of limestone in different parts of the Ohio Coal Field, it follows, of necessity, that a part of them disappear; or that additional ones come in,

The following abstract proves conclusively that all the beds can not be persistent:

ENUMERATION OF COAL SEAMS AND BEDS OF LIMESTONE IN VARIOUS PARTS OF THE COAL FIELD OF NORTHERN OHIO, REFERRED TO SEAM No 6.

Locality.	Number of coal seams.			Number of lime-stone beds.			Vertical space, No. 1 to No. 6, coal seams.	Thickness of lower barren measures.	Remarks.
	Below No. 6.	Above No. 6 to barren measures.	Total.	Below No. 6.	Above No. 6 to barren measures.	Total.			
Mercer and Beaver counties, Western Penn... Columbiana and Mahoning counties, on the Pennsylvania line	12	1	14	3	1	4	600	370	Rogers' Final Report. Ohio Reports.
Line of C. & P. Railroad, Ravenna to New Chambersburg, Ohio.....	7	2	10	4	2	6	520	.....	.....
Massillon, Stark county, to Zoar, Tusca- rawas county.....	4	.....	.....	3	.....	.....	720 (W.)	.....	.....
Yellow Creek, Jefferson county	6	2	9	2	.....	.....	374 (N.) 310 (W.)	.....	.....
Valley of Kilbuck, Holmes county	5 (N.)	2 (N.) 5 (W.)	8 (N.)	2	5	7	310 No. 2 to No. 6 (N.)	500	.....
Valley of Black Creek, Holmes county	7	2	10	2	2	4	323 (N.)	.....	.....
Fredericksburg, Wayne county	4	.....	.....	2	2	4	250	.....	.....
Simmons's Creek, Coshocton county	2	.....	.....	1	.....	.....	373	.....	.....
Muskingum county	4	.....	.....	2	.....	.....	200	.....	.....
.....	4	9	14	2	2	.....	211	140	Prof. E. B. Andrews.

Beds not the same on differ-
ent sides of the valley.

In the proceedings of the *Boston Natural History Society* for November, 1874, I gave reasons why No. 6 coal in the Coshocton county profiles, may not be the seam having the same number in the Tuscarawas profiles. The final report places their identity in a better light than before, but does not fully settle the question. They can not be brought into harmony upon the theory of undulations, caused by the uplifts of the Alleghanies, for the axes of the undulations lie at all angles with these uplifts, showing that they are merely local troughs, and basins of deposition. Frequently, the lower coal seams were deposited in pre-existing hollows of the Waverly, and thus are limited on all sides by the edges of those local basins. Such circumscribed beds can not be said to be the equivalents of beds in other basins, until the connection is proven by exact physical profiles.

From the Muskingum to the Hocking the identity of seams No. 5 and 6, which form a pair, and lie only twenty-five or thirty feet apart, may be considered as established, the Upper or No. 6 being the Great Seam of Perry county. Beyond this, towards the Ohio River, there is still a discussion between Professor Andrews and other eminent geologists, in regard to the equivalents of the Putnam Hill limestone, and of the No. 6 coal. If it can be established that No. 6 is continuous from the Pennsylvania line to the Ohio River, the reports will be vindicated, and the Ohio system will assume much more simplicity. At present it can only be said that one coal seam has been traced with certainty through the series, and that is the *Pittsburgh, Wheeling, and Pomeroy bed*, above the so-called barren measures.

Using this as the only well-fixed horizon, there are below it, as represented in the above table, in Columbiana and Jefferson counties ten (10) seams of coal and six (6) of limestone. In the Conotton Valley, according to Prof. Read, there are seven (7) beds of limestone, and seven (7) of coal. In Muskingum county eight (8) seams of coal, and twelve (12) of limestone. Further south, at Hocking and Athens counties, different observers do not agree as to the number of limestone, iron ore, and coal strata. There are profiles showing eleven (11) beds of limestone, and seven (7) seams of coal. In Gallia and Lawrence counties, on the Ohio River, Messrs. Andrews and Gilbert give in the same vertical space, seven (7) beds of limestone, and ten (10) of coal.

On the waters of the Tuscarawas, in the county of Stark, the west half of Carroll, Tuscarawas, Wayne, and Coshocton, is a geological field, where the strata have many features in common, which may be recognized as far south in Licking and Muskingum counties as the Licking River and the National Road. Beyond this line in that direction, changes occur in

the number and the character of the beds, which renders it difficult to establish strict identity in the series.

In the other direction, on the waters of the Great and Little Beaver Rivers, and of Yellow Creek in the east half of Carroll, in Columbiana, Mahoning, and Trumbull counties, and over the line in Pennsylvania, there is also a manifest difference in the deposits, from those on the waters of the Tuscarawas. Notwithstanding these variations, Professor Newberry concludes, that coal seams Nos. 5 and 6 are continuous from the Pennsylvania line on the east, through the summits between the waters of the Beaver and the Tuscarawas Rivers, to Zoar, Trenton, Coshocton, Zanesville, New Lexington, and Straitsville.

Coal seam No. 1 has been traced from the valley of the Mahoning, on the east line of the State, along its outcrop through Portage, Summit, Stark, Wayne, and Holmes counties.

No. 1 coal beneath these very regular beds, is very irregular of deposition. It consists of a series of hollows and ridges, sometimes connected and at others isolated, the rims of which are thirty to fifty feet above the bottom. In the coal seams above the lower lime-rock group, the same irregularity may be seen. Coal seams Nos. 5 and 6, and the associated rocks on Yellow Creek, vary in level eighty and one hundred feet in a mile. At Morgan Run, near Coshocton, there are waves in the upper seams like those at Massillon and Niles in the lower ones.

No. 3, or the lower limestone coal seam, is readily traced from the Mahoning Valley westerly, lying about one hundred and sixty feet above No. 1, as far to the west and south-west as Sugar Creek Valley, in the north-western part of Tuscarawas county.

ELEVATIONS OF POINTS IN THE LIMESTONE GROUP.

Places of observation.	Elevations above Lake Erie.			Vertical space of the group.
	Lower limestone, No. 1.	Middle limestone, No. 2.	Upper limestone, No. 3.	
Poland	340(?)	365(?)	425(?)	86(?)
New Lisbon	290	Not given.	485	195
Navarre	452	477	565	113
Bolivar	386	422	450	64
Agnus Hill	370	476	557	187
Avondale	316	351	384	68
Zoar	300	370	Not seen.	Not seen.
Magnolia	336	376	416	80

From the Mahoning westerly to the heads of "Big Sandy," near Hanover Station, only a short space below No. 6 coal, is a bed of lime rock,

designated as the "white limestone." This is not to be confounded with the white lime rock above the so-called No. 7 coal, on Yellow Creek.

The connecting link between the Tuscarawas Valley series and that of Little Beaver, is the lime rocks Nos. 1 and 2, over the so-called coals Nos. 3 and 4. Above these beds the strata are far from regular or persistent, requiring further and closer examination.

The profiles made by Prof. Stevenson, near Magnolia, in the north-west corner of Carroll county—by Prof. Newberry, at Mineral Point and Zoar Station, near the north-east corner of Tuscarawas county—by myself, from Bolivar to Massillon, in Stark county, and by Prof. Andrews, in Sugar Creek valley, near the forks at Deardorf's Mill, are so diverse, that they cannot as yet be made to fit each other. (See Figures 1 and 2.)

The great puzzle of our system is, to determine where those beds which are lost, terminate, and where those which are nearly on the same horizon, come in. Nothing but exact physical work can determine those points, and in many parts of the field such work is yet wanting. If the strata taper out on the line of their strike, they must also taper out on the direction of their dip, and therefore, in some instances, exist only as local patches. This feature of the Ohio series renders it one exceptionally difficult to survey.

I find in the reports frequent allusions to the completeness and value of this survey. Here, in the midst of the series, is an area of at least five townships, occupying a valley twenty miles in length, embracing all the beds of the lower coal strata, open to inspection in hundreds of places, with all the materials for making iron in abundance. The valuable information which the public may extract from all the reports relating to this region, might have been acquired by an active explorer in one day.

The officers of the C., C. & S. Railroad Co. found so little had been done in this region, that it was necessary for the company to make a detailed survey for itself. Prof. Andrews, in the prosecution of this work, with the assistance of Mr. H. D. Dennis, and of W. Jones, the engineer, was unable to connect these beds with those of the valley of the Kilbuck on the west, or of the Tuscarawas on the east. An undiscovered horizon of blackband ore was brought to light by him, and a bed of coal, not noticed by the Survey. For these reasons, it becomes necessary to give something more than a general notice of this important mineral region. The sandstones are not a reliable guide in determining the equivalency of strata; in truth, the more complete and exact our explorations become, the more numerous and more perplexing these irregularities appear.

Until the third limestone was discovered by Prof. Andrews, in the

Sugar Creek valley, it did not seem possible that No. 6 could be persistent. By extending the white limestone of Columbiana county—the first one below No. 6 coal—to the westward, through Tuscarawas, the position of the report is strengthened. On that basis the place of No. 4 coal and No. 2, or the “Putnam Hill limestone,” must be changed in several of the sections.

The Zoar section, which is a typical one for this region, and to which the lower coal series of the State has been forced to conform, does not show this lime-rock. (See profile No. 2.) Until it was observed in the Sugar Creek valley, I did not feel sure of its existence west of Hanover, in Columbiana county, although there are fragments of it in the drift of Suffield, in Portage county. It is only for convenience and provisionally that the terms *blue*, *gray*, and *white* are applied to the lower, middle, and upper limestones. All of them are, in places, blue; all of them have coal beneath, and, generally, a show of iron ore above.

Large quantities of shell and block ore have been mined, resting upon No. 2, or the “gray limestone” of the reports. This has also been confounded with the white or No. 3. Its existence there, though unfortunate for the typical section of the State, sustains the theory of the report in regard to the general persistence of No. 6 coal seam. The Putnam Hill limestone is, however, thrown out of place in several cases by the better establishment of this coal.

Where this is made typical among the limestone beds, by Prof. Andrews, it is the first regular bed below Coals Nos. 5 and 6, between which there are no lime strata in that part of the State.

Using the physical sections of Mr. Jones, I connect this bed with the upper one at Rowville, 480' A., and 71 feet below No. 6 coal, rising to the northward as far as Fisher's coal mine, where it is 538' A. The lower limestone coal at Avondale thus becomes No. 1 of the Ohio series, over No. 3 coal, and the middle one No. 3a. Above this, No. 3b coal is wanting here. The bed of flint on this profile next below No. 5 coal is probably local. In the valley of White Eyes Creek, according to Prof. Andrews, the Avondale profile holds good, with little variation.

No. 4, of the report of 1870, is now regarded as No. 3a. No. 4 proper, is the second, or “gray limestone” seam, a companion of No. 1, in both of which there is a lime-rock roof. From the valley of the Mahoning to that of the Tuscarawas, near Massillon, they are only twenty-five to thirty feet apart, very regular and conformable. The lime beds being the result of an action not merely sedimentary, but, like the iron ores, also of chemical segregation, in quiet waters will form in more perfect planes than the shale, sand-rock, and coal strata.

On the west side of the south fork of Sugar Creek is the usual bed of sand-rock over Coal No. 6. On the east side of the same valley it is principally wanting, replaced by shale, in which are important beds of iron ore. Such irregularities in our deposits perplex the explorer, but should not surprise him, for this is one of the most uniform characters of the Ohio series. This fact should make him very cautious in deciding upon equivalents.

The Deardorff sandstone overlying No. 3 coal, and its lime-rock, is easily traced from Justus Station to Beach City and Agnus Hill, and thence on both sides of the valley to school-house No. 7. Neither the Deardorff sandstone, the limerock just above it, nor the coal bed a few feet higher, fall into proper relations with the beds named in the survey.

The lime-rock, 38 feet above the Fisher coal, 538 feet above Lake Erie, is at the Shetlar mine, near Navarre, 542 feet, and 36 feet below Coal No. 5. Here No. 6 is 42 feet higher, overlaid by sandstone to the top of the hill, 30 to 40 feet thick. At Agnus Hill No. 5 is worked at an elevation of 575 feet. At Shetlar's it is heavier than No. 6.

The Fisher bank, Weimar's, lower Agnus, Schrock's, and Nead's banks, with those in the same horizon, for convenience of description I have called No. 3b. This coal is very regular in thickness, 3 to $3\frac{1}{2}$ feet, easily wrought, lies above drainage, and is of mercantile value. As a part of the geological series, it must be regarded as local, covering a comparatively small field. South of the summit it has not yet been found. It is highly probable, however, that the lime-rock No. 2 in the Avondale profile of Prof. Andrews is the same that crops out on Sugar Creek, 10 to 20 feet below this coal. Here there is a coal bed underlying it, which I have called No. 3a.

On the west side of the valley No. 6 is well defined, from Wilmot to Shoup and Baker's mine, overlaid everywhere by a heavy sand-rock, 40 to 60 feet in thickness, forming the surface of a high ridge, 640 to 660 feet above Lake Erie. It is $3\frac{1}{2}$ to 5 feet thick, and has a very strong heating power. Following it southerly to Shanesville, Harman's, and Farmersville, it becomes more dry burning, and is a very bright black and handsome coal. No. 5 in this direction becomes less regular, but is workable in several places.

In profile No. 4 I have represented the general structure of this region. Beds within two miles of the general course of the profile are projected on a vertical plane, which is placed near the line of the Tuscarawas Valley and the Beach City and the Coshocton Railways. It represents three beds of coal, and in places four, having a workable thickness. In no place is there less than one, and in many places *three* beds of limestone

above drainage. The iron ores are not represented. Along the highlands between Sugar Creek and the Tuscarawas, ore has been uncovered at numerous points from Navarre to Strasburg, principally over No. 2 limestone and No. 5 coal. These ore seams appear on both sides of the south fork of Sugar Creek, as far as Rowville, and some of the hills are high enough for those over No. 7 coal.

The above table of elevations in the limestone group shows that the railway route from Canton, by Beach City to Rowville, is nearly on the line of bearing of the strata where they are approximately level. Limestone No. 3, at Navarre, is 566, a mile east of Beach City 536, Agnus Hill, 551, Shanesville, 486; Rowville, 480. I have calculated the local dip of all the beds in the vicinity of this line, and find it to be south-easterly, but very slight, 12 to 15 feet per mile. The lower limestone, or No. 1, on a line due south from Greentown to Zoar, a distance of 25 miles, sinks from 455 to 300 feet, or 155 feet. From Rowville south the beds dip more rapidly. No. 6 coal, which is here 551, is at Avondale 447, a difference of 104 feet in five miles.

At Coshocton it is not well settled which of the beds is No. 6. At Trenton, 15 miles south, 70° east from Rowville, it is 336 feet, making a descent of 215 feet, equal to $14\frac{1}{2}$ feet per mile. Over small spaces, when the local undulations are considered, the beds for mining purposes may be regarded as level, the best points for making entries to be determined by survey of each location. Here the number of seams of coal in the lower series is *nine*, but of these only *four* are of merchantable value.

CLEVELAND, OHIO, November 1, 1878.

IRON AND COAL STATISTICS.

IRON ORE.

Number of tons iron ore mined in Ohio, as reported by township assessors	286,886
Number of tons iron ore from other States (used in Ohio), as reported by township assessors.....	397,107
Number of tons iron ore from foreign countries, as reported by township assessors	160
Total number of tons used in Ohio, as reported May, 1878.....	684,153

PIG IRON MANUFACTURED IN OHIO IN 1877.

Number of tons cold blast native ore charcoal pig iron	8,436
“ hot “ “ “ 	309,524
“ “ “ stonecoal “ 	125,335
“ native or foreign “ “ 	156,122
“ “ “ charcoal “ 	23,827

Total number tons pig iron manufactured in Ohio, as reported by township assessors May, 1878.....	623,244
Total number tons pig iron manufactured in Ohio in 1877, as reported by the American Iron and Steel Association.....	400,398
Total number tons pig iron manufactured by sixteen Ohio furnaces in 1877, as reported by the proprietors	157,973
Least number tons pig iron manufactured by any one of the above sixteen furnaces	1,589
Greatest number tons of pig iron manufactured by any one of the above sixteen furnaces.....	29,000

The following table from the report of James M. Swank, Secretary of the American Iron and Steel Association, shows the production of pig iron in Ohio, by districts:

	Furnaces De- cember 31st.	Condition of fur- naces on De- cember 31st.					Make of pig iron in net tons (tons of 2,000 pounds).					
		1876.		1877.								
		1877	In	Out	In	Out	1872.	1873.	1874.	1875.	1876.	1877.
Hanging Rock coke	16	4	11	7	9	23,169	28,601	26,015	36,899	44,260	44,544	
Mahoning Valley.....	21	8	12	8	13	152,756	136,979	121,403	115,993	137,546	136,526	
Hocking Valley	13	2	1	7	6	.....	.....	.....	1,250	7,483	23,895
Miscellaneous coke.....	23	13	11	13	10	128,196	139,956	184,748	199,780	165,057	153,316	
Hanging Rock charcoal....	31	10	24	14	17	87,440	92,365	85,873	57,413	42,822	40,212	
Miscellaneous charcoal....	3	1	2	....	3	8,182	8,133	6,962	4,558	6,109	1,905

The following table and summary, for 1877, from the same report, exhibit the growth of the several branches of the pig iron trade in the United States from 1854 to 1877:

Years.	Anthracite.	Charcoal.	Bituminous coal and coke.	Total.
1854	339,435	342,298	54,485	736,218
1855	381,866	339,922	62,390	784,178
1856	443,113	370,470	69,554	883,137
1857	390,345	330,321	77,451	798,157
1858	361,430	285,313	58,351	705,094
1859	471,745	284,041	84,841	840,627
1860	519,211	278,331	122,228	919,770
1861	409,229	195,278	127,037	731,544
1862	470,315	185,662	130,687	787,662
1863	577,638	212,005	157,961	947,604
1864	684,018	241,853	210,125	1,135,996
1865	479,558	262,342	189,682	931,582
1866	749,367	332,580	268,396	1,350,343
1867	798,638	344,341	318,647	1,461,626
1868	893,000	370,000	340,000	1,603,000
1869	971,150	392,150	553,341	1,916,641
1870	930,000	365,000	570,000	1,865,000
1871	956,608	385,000	570,000	1,911,608
1872	1,369,812	500,587	984,159	2,854,558
1873	1,312,754	577,620	977,904	2,868,278
1874	1,202,144	576,557	910,712	2,689,413
1875	908,046	410,990	947,545	2,266,581
1876	794,578	308,649	990,009	2,093,236
1877	934,797	317,843	1,061,945	2,314,585

PRODUCTION OF PIG IRON IN 1877.

"The production of pig iron in the United States in 1877 was 2,314,585 tons of two thousand pounds, against 2,093,236 tons in 1876, a gain of 221,349 tons, or about 10½ per cent. Twenty-two States made pig iron in 1877. As compared with other years, immediately before and since the panic, the production of 1877 shows a decided reaction from extreme depression, but still falls far short of the country's best achievements. The figures are as follows: 1872, 2,854,558 net tons; 1873, 2,868,278 tons; 1874, 2,689,413 tons; 1875, 2,266,581 tons; 1876, 2,093,236 tons; 1877 2,314,585 tons. The production in 1877 was about 50,000 tons greater than in 1875. The year 1876—the Centennial year—was the year of least production since 1872, and 1873 was the year of greatest production in the history of American pig iron.

"Of the total production of pig iron in 1877, 1,061,945 net tons were made with bituminous coal and coke, 934,797 tons with anthracite, and 317,843 tons with charcoal. In 1873, the year of greatest production, the proportions were as follows: Anthracite, 1,312,754 net tons; bitumi-

nous coal and coke, 977,904 tons; charcoal, 577,620 tons. It will be seen that, while the production of anthracite and charcoal pig iron has largely fallen off, that of bituminous coal and coke pig iron has ver-; materially increased.

"During the year 1877 the number of furnaces abandoned almost equaled the number of furnaces constructed, the total number of furnaces at the close of the year which were in blast, or ready to be put in blast at short notice being 716, as already stated, against 712 at the close of 1876, showing an increase during 1877 of only four furnaces. The number of furnaces erected during the year was 17, and the number permanently abandoned was 13; net increase, four. The only district in the country in which there was any marked activity in the building of furnaces was the Hocking Valley district of Ohio, in which nine furnaces were built, the total number amounting to 13 at the close of 1877, against four at the close of 1876.

CONSUMPTION OF PIG IRON IN 1877.

"The consumption of pig iron in 1877 was apparently greatly in excess of the consumption in 1876. The production was greater and stocks in the hands of makers were reduced. At the close of 1876 makers' stocks amounted to 686,798 net tons, and at the close of 1877 this quantity had been reduced to 642,351 tons, a difference of 44,447 tons. The imports of pig iron in 1877 amounted to 66,871 net tons, and our exports to 7,687 tons, showing a difference in favor of importations of 59,184 tons. If we add the production of 2,314,585 net tons in 1877 to the reduction of 44,447 tons in stock and the net importation of 59,184 tons, we have an approximate consumption last year of 2,418,216 tons, against 2,172,503 tons in 1876. This increased consumption, which was due to the increasing demand for iron and to the ruinously low prices which prevailed throughout the year, must have been mainly confined to the car-wheel works, machine shops, pipe works, and other foundries, as we rolled less iron in 1877 than in 1876 and made but little more Bessemer steel. Doubtless considerable quantities of pig iron went to swell the business of a hundred small industries which shared the general improvement in demand for iron wares. That the increased production of 1877, the decreased stock in makers' hands, and the imports of the year represent consumption there can be no doubt, as there was no speculative demand at any time during the year, nor any noteworthy disposition by the proprietors of mills and foundries to buy ahead of immediate requirements.

"But the fact remains, notwithstanding the increased consumption of 1867, that prices of pig iron were alike unsatisfactory to the capital in-

vested in its manufacture and to the labor which produced it. Neither was adequately rewarded, and in many instances the sheriff's writ attested that capital was not rewarded at all."

COAL STATISTICS.

Number of tons of coal mined in Ohio in 1877, as reported to the county auditors by township assessors in May, 1878.....	3,526,804
Number of tons of coal mined at fifty mines in Ohio, as reported by the proprietors of mines in 1877	2,210,250
Least number of tons mined at any one of the fifty mines in 1877	2,344
Greatest number of tons mined at any one of the fifty mines in 1877.....	424,000

TABLE EXHIBITING THE AMOUNT OF COAL AND IRON ORE MINED, AND THE AMOUNT OF SALT AND PETROLEUM PRODUCED IN OHIO, AS REPORTED BY TOWNSHIP ASSESSORS TO THE COUNTY AUDITORS IN MAY, 1878.

Counties.	Stone coal.	Iron ore.			Salt furnaces.	Petroleum.
	Bushels mined.	Tons mined.	Tons from other states.	Tons from other countries.	Number bushels salt made.	Number gallons produced.
Ashland	1,000					
Athens	9,829,991	17,000	400		7,160,590	
Belmont	6,868,003		14,000			
Carroll	273,475					
Columbiana	9,586,660	26,410	36,000		21,000	
Coshocton	1,162,200					
Cuyahoga			328,962			*77,400,000
Galila	219,402					
Guernsey	1,479,300				4,000	
Harrison	390,165					
Hocking	4,513,395	20,758	300	160		
Holmes	242,750					
Jackson	1,714,831	32,757				
Jefferson	3,641,160	10,402				
Lawrence	2,701,839	83,759	8,850			
Mahoning	3,922,403		8,595			
Meigs	7,332,880				2,652,221	1,000
Monroe	71,700					
Morgan	251,495				61,060	229,678
Noble	157,199				5,000	314,600
Perry	11,672,138	72,954			35,000	
Portage	70,100					
Scioto	47,300	11,500				
Stark	8,427,446	1,320				
Summit	4,051,849					
Trumbull	11,317,481	10,021				22,440
Tuscarawas	4,437,050	10			233,100	
Vinton	1,185,910					
Washington	216,225					
Wayne	2,959,220					1,049,940
Totals	98,750,537	286,886	397,107	160	10,171,971	79,016,958

* Refined.

NOTE.—Total number of employes in coal mines, reported by township assessors. 9,814

“ “ iron “ “ “ 1860

Average wages of each employe per day as reported by township assessors \$1 40

“ “ “ “ proprietors of mines 1 58

TABLE SHOWING THE AMOUNT OF PIG-IRON PRODUCED IN OHIO AS REPORTED BY TOWNSHIP ASSESSORS TO COUNTY AUDITORS IN MAY, 1878.*

Counties.	Tons cold blast native ore smelted with char-coal.	Tons hot blast native ore smelted with char-coal.	Tons hot blast native ore smelted with stone coal.	Tons native or foreign ore smelted with stone coal.	Tons native or foreign ore smelted with char-coal.
Athens.....		270,000	17,000		
Belmont.....				13,130	
Columbiana.....				38,400	
Cuyahoga.....			32,000		
Jackson.....	1,800	13,602	15,772		15,837
Jefferson.....				12,986	
Lawrence.....	4,636	8,265	1,300	29,393	
Mahoning.....	2,000		22,026	46,581	
Perry.....			18,077		
Scioto.....		3,540	330	330	7,990
Trumbull.....		14,117	18,830	15,302	
Totals.....	8,436	309,524	125,335	156,122	23,827

*No other counties reported.

THE PRODUCTION OF ROLLED IRON AND STEEL, IN 1877, IN THE UNITED STATES.

FROM THE ANNUAL REPORT OF JAMES M. SWANK, SECRETARY OF THE AMERICAN IRON AND
STEEL ASSOCIATION.

GENERAL SUMMARY OF ROLLED IRON PRODUCTION.

The following table will show the production of all forms of rolled iron since 1864, divided into (1) rails and (2) all other rolled iron:

Years.	Iron rails. Net tons.	Other rolled iron. Net tons.	Total. Net tons.
1864.....	335,369	536,958	872,327
1865.....	356,292	500,048	856,340
1866.....	430,778	595,311	1,026,089
1867.....	459,558	579,838	1,039,396
1868.....	499,489	598,286	1,097,775
1869.....	583,936	642,420	1,226,356
1870.....	588,000	705,000	1,291,000
1871.....	737,483	710,000	1,447,483
1872.....	905,930	941,992	1,847,922
1873.....	761,062	1,076,368	1,837,430
1874.....	584,469	1,110,147	1,694,616
1875.....	501,649	1,097,867	1,599,516
1876.....	467,168	1,042,101	1,509,269
1877.....	332,540	1,144,219	1,476,759

PRODUCTION OF IRON AND STEEL RAILS IN 1877.

The production of iron and steel rails of all sizes in 1877 was much less than in 1876. The total production in 1877 was 764,709 net tons, against 879,629 tons in 1876, 792,512 tons in 1875, 729,413 tons in 1874, 890,077 tons in 1873, 1,000,000 tons in 1872, and 775,733 tons in 1871. Of the total production in 1877, 332,540 net tons were iron rails, against 467,168 tons in 1876; and 432,169 net tons were Bessemer steel rails, against 412,461 tons in 1876. These figures show a decrease in the production of iron

rails of 134,628 net tons, and an increase in the production of Bessemer steel rails of 19,708 net tons. The total production of rails in 1877 was 114,920 net tons less than in 1876—a decline of 13 per cent. For the first time the production of Bessemer steel rails overtook that of iron rails in 1877. The production of street rails in late years is included in the aggregates of iron and steel rails, as follows: 1873, 9,430 net tons; 1874, 6,739 tons, of which 1,000 tons were Bessemer steel; 1875, 16,340 tons, of which 2,308 tons were Bessemer steel; 1876, 13,086 tons, of which 3,563 tons were Bessemer steel; 1877, 7,015 tons, of which 1,269 tons were Bessemer steel.

Years.	Net tons.	Years.	Net tons.	Years.	Net tons.	Years.	Net tons.
1849....	24,318	1857....	161,918	1865....	356,292	1873....	890,077
1850....	44,083	1858....	163,712	1866....	430,778	1874....	729,413
1851....	50,603	1859....	195,454	1867....	462,108	1875....	792,512
1852....	62,478	1860....	205,038	1868....	506,714	1876....	879,629
1853....	87,864	1861....	189,818	1869....	593,586	1877....	764,709
1854....	108,016	1862....	213,912	1870....	620,000		
1855....	138,674	1863....	275,768	1871....	775,733		
1856....	180,018	1864....	335,369	1872....	1,000,000		

The following table shows in detail the production of iron and steel rails in this country since the beginning of the manufacture of Bessemer steel rails:

Years.	Iron rails all kinds. Net tons.	Bessemer steel rails. Net tons.	Total. Net tons.
1867	459,558	2,550	462,108
1868	499,489	7,225	506,714
1869	583,936	9,650	593,586
1870	586,000	34,000	620,000
1871	737,483	38,256	775,733
1872	905,930	94,070	1,000,000
1873	761,062	129,015	890,077
1874	584,469	144,944	729,413
1875	501,649	290,863	792,512
1876	467,168	412,461	879,629
1877	332,540	432,169	764,709

The following table shows the production in net tons of rails of all kinds in the United States from 1871 to 1877, classified by States, together with the percentage made in each State in 1877:

States in the order of their rail production in 1877.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	Percentage made in each State in 1877.
Pennsylvania....	335,604	449,113	328,522	259,288	255,136	353,925	347,968	45.51
Illinois.....	91,178	107,496	136,102	125,103	188,248	181,490	120,762	15.78
Ohio.....	75,782	138,165	130,326	82,561	91,775	100,799	82,270	10.76
Indiana.....	12,778	23,893	26,579	20,617	23,309	29,383	34,876	4.56
New York.....	87,022	86,518	59,764	46,979	82,960	57,306	34,094	4.46
Missouri.....	8,200	15,500	14,020	24,017	17,396	20,903	31,289	4.09
Wisconsin.....	28,774	37,284	39,495	29,680	28,403	21,280	21,439	2.80
Kansas.....	.....	.....	.....	2,000	5,000	14,707	16,018	2.10
Kentucky.....	6,000	7,480	11,386	6,068	5,851	1,524	12,100	1.58
Tennessee.....	9,667	14,620	13,973	13,693	12,250	21,394	11,373	1.49
Georgia.....	7,840	6,930	8,275	8,061	6,500	9,000	10,031	1.31
Wyoming Terr'ty	.....	.....	.....	.....	7,000	12,320	10,007	1.31
Massachusetts...	28,864	29,242	34,034	24,765	18,391	9,061	9,640	1.26
Maryland.....	44,941	30,533	42,356	48,008	30,619	18,844	8,531	1.12
California.....	.....	.....	475	7,016	5,073	8,629	5,750	.75
Vermont.....	.....	.....	6,088	10,400	6,204	9,183	3,899	.51
Maine.....	13,383	14,058	16,500	14,650	4,050	7,500	2,526	.33
West Virginia...	5,000	20,100	4,000	522	406	538	1,756	.23
New Jersey.....	6,700	9,185	13,749	3,537	941	243	380	.05
Michigan.....	14,000	9,883	4,433	2,448	.....	11,600	.....	.....
Total.....	775,733	1,000,000	890,077	729,413	792,512	879,629	764,709	100.00

PRODUCTION OF BESSEMER STEEL IN 1877.

The quantity of pig iron and spiegeleisen converted by the Bessemer process in the United States in 1877 was 562,227 net tons, against 539,474 tons in 1876, 395,956 tons in 1875, and 204,352 tons in 1874. Of spiegeleisen alone there were used 48,229 net tons in 1877, against 45,980 tons in 1876, and 32,245 tons in 1875. The number of net tons of Bessemer steel ingots produced in 1877 was 560,587 against 525,996 tons in 1876, 375,517 tons in 1875, and 191,933 tons in 1874. The number of net tons Bessemer steel rails produced in 1877 was 432,169, against 412,461 tons in 1876, 290,863 tons in 1875, and 144,944 tons in 1874. In the eleven years during which the Bessemer steel industry of this country has had an active existence there has been produced a total of 1,595,197 net tons of steel rails. The number of Bessemer converters in use during the whole or a part of the year 1877 was 22, representing all the Bessemer steel establishments of the country.

Full details of the Bessemer steel industry in this country for 1874, 1875, 1876, and 1877 are as follows :

Details of production.	1874. Net tons.	1875. Net tons.	1876. Net tons.	1877. Net tons.
Pig iron and spiegeleisen converted. . .	204,353	395,956	539,474	562,227
Ingots produced	191,933	375,517	525,996	560,587
Rails produced.	144,944	290,863	412,461	432,169

As we have frequently explained, the Bessemer steel produced in this country, which is not rolled into rails, is used in various forms as a substitute for wrought iron or for other kinds of steel. This use of Bessemer steel is rapidly increasing. The production of Bessemer steel rails in this country since 1867, when they were first made upon orders, has been as follows :

Years.	Net tons.	Years.	Net tons.	Years.	Net tons.
1867	2,550	1871	33,250	1875	290,863
1868	7,225	1872	94,070	1876	412,461
1869	9,650	1873	129,015	1877	432,169
1870	34,009	1874	144,944	Total	1,595,197

The number of net tons of spiegeleisen produced in this country in 1877 was 8,845, against 6,616 tons in 1876, and 7,832 tons in 1875. New Jersey, Pennsylvania, Georgia, and Alabama made spiegeleisen in 1877. The Bethlehem Iron Company, at Bethlehem, Pennsylvania, commenced to make spiegeleisen in 1875, and in 1877, at a small furnace built expressly for the purpose, made more than half that it used. The North Jersey Iron Company, at Port Oram, made several thousand tons of spiegeleisen in 1877, and the New Jersey Zinc Company continued its manufacture from preceding years. Small quantities was made at Woodstock, Alabama, and at Cartersville, Georgia. The Cambria Iron Company now manufactures at Johnstown, Pennsylvania, its own spiegeleisen, from mixed foreign and domestic ores, using one furnace, which produces nearly 600 tons a month. The use of ferro-manganese in the Bessemer process is not now increasing in this country.

Of the eleven Bessemer steel establishments in the United States, the last one erected, the Vulcan, at St. Louis, was completed in 1876. No addition to the number has since been projected or seriously contem-

plated. The lesson has been learned at very great cost that the country now possesses sufficient facilities for the manufacture of all the Bessemer steel it will need for many years to come.

PRODUCTION OF STEEL OTHER THAN BESSEMER IN 1877.

Forty-one establishments made crucible, open-hearth, blister, and puddled steel in 1877, located in New Hampshire, Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Maryland, Ohio, Kentucky, and Tennessee. There are also steel works in Rhode Island, Georgia, and Illinois, but they were not in operation in 1877.

The total production in 1877, of all the kinds of steel named above, was 77,385 net tons, against 71,178 tons in 1876, 61,038 tons in 1875, and 49,681 tons in 1874. Of the product of 1877, 40,430 tons were crucible steel, 25,031 tons were open-hearth steel, and 11,924 tons were puddled and blister steel. The table below shows the productions in the several years:

Kinds of steel.	1872.	1873.	1874.	1875.	1876.	1877.
Crucible cast steel..... Net tons	29,260	34,786	36,328	39,401	39,382	40,430
Open-hearth steel..... "	3,000	3,500	7,000	9,050	21,490	25,031
All other steel except Bessemer..... "	7,740	13,714	6,353	12,607	10,306	11,294
Bessemer steel ingots..... "	120,108	170,652	191,933	375,517	525,996	560,587
Totals.....	160,108	222,652	241,614	436,575	597,174	637,342

If protection had not enabled us to make this large quantity of steel at home, and if it had been possible for us to purchase this quantity abroad, our debt to Europe would have been increased at least \$175,000,000, and no class of our countrymen would have been benefited except the importers. The steel manufacture of this country is eminently the child of the protective policy, and its healthy growth and beneficent influence illustrate most signally the wisdom of that policy.

ROLLING MILLS THAT ROLL IRON AND BESSEMER STEEL.

At the close of 1877 there were, in twenty-five States and the Territory of Wyoming, 338 rolling mills, containing 4,531 single puddling furnaces, each double furnace being counted as two single furnaces. There were also 51 single puddling furnaces connected with steel work and forges, the total number of puddling furnace in the United States in 1877, being 4,582. Of the whole number of mills 253 were in operation during the whole or a part of the year.

The rolling mill capacity of the country, like its blast furnace capacity, is double the production of 1877.

TABLE EXHIBITING THE AMOUNT OF ROLLED STEEL AND IRON PRODUCED IN OHIO, AS REPORTED BY TOWNSHIP ASSESSORS TO THE COUNTY AUDITORS IN MAY, 1878.

Counties.	Bar and nail-rod iron.	Nails.	Hoop-iron.	Sheet-iron.	Boiler-iron.	Spikes and rail-road chairs.	Railroad rails—iron.	Railroad rails—steel.	All other steel.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Belmont	6,210	9,586	.....	1,866	.....	.....	.....	.....	.....
Columbiana ..	.....	.....	.....	2	185	.....	.....	.....	3
Cuyahoga	17,350	.....	.....	2,463	3,915	.....	17,560	42,825	35,500
Hamilton	3,720	.....	.....	.....	.....	.....	.....	.....	179
Jefferson .....	.....	6,420	.....	.....	.....	.....	.....	.....	.....
Lawrence ....	.....	7,500	5,000	.....	.....	.....	300	.....	.....
Mahoning	24,697	.....	9,000	766	.....	384	.....	.....	10
Meigs	1,750	.....	10	.....	.....	.....	.....	.....	.....
Scioto	2,580	193	404	879	1,789	58	.....	.....	2,010
Trumbull ...	8,548	2,268	.....	5,097	40	.....	.....	.....	.....
Totals...	65,125	25,967	14,414	11,073	5,929	442	17,860	42,825	37,702

* Other counties not reported.

THE BEREA SANDSTONE OF OHIO.

PREPARED FOR THE ANNUAL REPORT OF THE SECRETARY OF STATE.

BY PROF. EDWARD ORTON,
Of the Ohio State University.

The State of Ohio is, on the whole, well supplied with building stones. There are considerable areas in which no stone is available on account of the heavy beds of drift with which the face of the country is covered, but three-fourths of the State may be said to have adequate local supplies. A wide range of quality is shown in these supplies. The best Ohio building stone is not surpassed by any stone of the same class in the markets of this country. The various products of our stone-quarries already make an aggregate of millions of dollars annually, and the business is rapidly increasing.

Our building stones are found at many separate geological horizons. With the geological scale and map of the State, the reader of these pages is supposed to be familiar. It is enough to say that the State is divided from north to south into two unequal divisions, the smaller of which makes up western Ohio. This division is underlain by the limestones and shales of Lower Silurian, Upper Silurian, and Devonian age, and wherever these rocks yield surface exposures, a reliable supply of building stone is at hand. Some of the limestones of western Ohio have a very high degree of excellence. The quarries of Dayton, Columbus, Greenfield, Springfield, and Cincinnati, represent the principal divisions of this series.

The eastern division of the State is underlain with Devonian shales and with the sandstones, conglomerates, shales, and limestones of the great Carboniferous system. This division is much less encumbered with drift deposits than the other, and its composition is much more varied, the several elements named above succeeding each other in every extended section with rapid alternations. As a consequence, there are very many horizons from which good building stone is derived. As a rule, the products of the quarries of eastern Ohio are silicious, being either freestones, sandstones, or conglomerates, but at a few points the limestones of the Carboniferous system are successfully worked.

There is, however, one horizon in this general division that has an exceptional interest from both an economical and a geological point of view. It is the stratum named at the head of this article, viz., the *Berea sandstone*. As a source of building material it is beyond comparison the most valuable formation not only of eastern Ohio, but of the whole State as well. As to geological interest, it is enough to say that it can be followed as a continuous stratum through twenty-one counties in a line of outcrop of more than four hundred miles in length, and that it not only furnishes a common geological base for all portions of the State which it traverses, but that it also serves to connect the series of Pennsylvania on the one side, and that of Kentucky on the other, with our own, in such a way as to render important correlations at once definite and easy.

The details of the structure and character of this important stratum are furnished to a considerable extent in the several reports of the Ohio Geological Survey, in which it is treated under a variety of names. In the brief review which I propose to make, I shall not consider, except incidentally, the splendid development which it shows in numerous localities, and the great commercial value which it has already attained at some of these points, but I shall rather treat the formation as a whole, following its line of outcrop and its varied development throughout the State, and thus illustrating its present and prospective value to the entire commonwealth more clearly than any discussion of exceptional localities could do.

I gather the facts which I use from the several geologists that have recently worked upon this part of our series, viz., from Newberry and Reed, in Northern Ohio; from N. H. Winchell, in the northern central portion of the State, and from Andrews, in Southern Ohio. I shall also use my own observations, made in various portions of the State. The connections here asserted between the northern and southern portions of the field, I have worked out during the last year, and for the statements relating to them, I must assume the entire responsibility.

The formation derives its name from the village of Berea, Cuyahoga county, where it attains its highest excellence, and where it has been very extensively worked. Its place in the geological scale is near the base of the important series of shales, sandstones, and conglomerates, known as the *Waverly Group*, the Sub-Carboniferous age of which is now generally accepted. In thickness it varies from six to sixty feet, the smallest measures being found in Central and Southern Ohio, and the largest in Northern Ohio. From Franklin county northward, it seldom falls below fifty feet, while in Southern Ohio, twenty-five feet would exceed the average measure.

This considerable thickness, combined with the facts that the stratum everywhere consists of firm sandstone layers, and that it is immediately overlain and underlain by beds of easily eroded shales, renders it easy to follow its outcrop from county to county throughout the State. The overlying and underlying shales just referred to are also quite definitely characterized, and thus serve to assist in the identification of the stratum which they enclose. The upper bed is black, and the lower one is blue, or sometimes red.

The general section of the Waverly Group and the underlying Devonian Shales of Northern Ohio is thus given by Newberry (*Geology of Ohio*, Vol. II, page 87):

Cuyahoga Shale, 250 ft.	} Waverly Group, Sub-Carboniferous.
Berea Sandstone, 60 ft.	
Bedford Shale, 75 ft.	
Cleveland Shale, 60 ft.	
Erie Shale	} Devonian Shales.
Huron Shale	

The Huron Shale of the Devonian is a black shale, as is also the Cleveland Shale of the Waverly Group. These are separated in Cuyahoga county by a mass of green and blue shale, called the Erie Shale, which is not less than 150 feet thick at Cleveland. It shrinks rapidly in volume, however, as it is followed to the westward, and at the mouth of Vermillion River, Dr. Newberry reports it as disappearing entirely—thus letting the Cleveland Shale down upon the Huron. If this be the true interpretation of the facts, it would seem that the Great Black Shale, which stretches from the Lake Shore to the Ohio River, is the blended product of these three epochs, viz.: the Huron proper, the Erie, and the Cleveland. In confirmation of this view, it may be stated that the uppermost beds of the Great Black Shale, in Franklin county, contain the fossils of the Cleveland Shale; and also that there are beds of green and blue shale interstratified with the black, in the upper portion of the series, where the place of the Erie Shale should be.

A representative section from Southern Ohio can be taken from Pike county, where the whole group obtained its name. It is as follows (See *Geology of Ohio*, Vol. II, page 618):

Waverly Group, Sub-Carboniferous	{ Upper Waverly	Sandstone, 50 ft.
		Shale, 300 ft.
	Buena Vista Stone.	
	{ Waverly Black Shale, 20 ft.	
Devonian Shale	{ Waverly Quarries, 50 ft.	
	{ Waverly Shale, 75 ft.	
	{ Huron, or Great Black Shale, 300 ft.	

This section, as far as the Upper Waverly, can be followed, with its

leading elements unchanged, into Central Ohio, though, as is to be expected, the measures of these elements are constantly varying. But the northern section of the Waverly, through at least the lowermost two hundred and fifty feet of strata, can be followed to the same district. What, then, are the equivalent terms of these separate series?

It will be seen that in Cuyahoga county and eastward, a bed of black shale, the Cleveland Shale of Newberry, was found at least one hundred and fifty feet above the surface of the Huron Shale, bounded above and below by blue shales. In Southern Ohio, also, Professor Andrews found a bed of black shale—the Waverly Black Shale—about one hundred and forty feet from the surface of the Huron, so called, or Great Black Shale, and like the Cleveland of the north, intercalated between beds of blue shale and sandstone. The identification of these two beds as one stratum was a natural one to make, and though at first asserted only as probable by Dr. Newberry, its truth seems gradually to have been accepted and has been made the basis of all subsequent attempts to correlate the Waverly series of the different sections of the State. It seems to have been first questioned, however, by its author, who has lately denied that any southern continuation of the Cleveland Shale could be demonstrated. The true order proves, indeed, to be quite different from this. The Berea Sandstone turns out to be the stratum from which the whole formation was named, viz: the Lower Waverly Quarries of Pike county. To make the correlation of the series more exact, one element must be added to Dr. Newberry's section of the group in Northern Ohio. The *Berea Shale* needs to be interpolated between the Berea Sandstone and the Cuyahoga Shale. The presence of a bed of bituminous shale, twenty or thirty feet in thickness, at the base of the Cuyahoga Shale, is shown in the several reports on the northern counties, but it is not there separated from the overlying beds. Its fossils are shown to be in large part, identical with those of the Waverly Black Shale of Southern Ohio. The northern and southern sections of the group are, then, correlated as follows:

NORTHERN OHIO.

SOUTHERN OHIO.

Cuyahoga Shale, Upper Waverly, 250 feet ...	$\left\{ \begin{array}{l} \text{Sandstone.} \\ \text{Shale.} \\ \text{Buena Vista Stone,} \end{array} \right\}$	350 feet.
(Berea Shale), 20 feet	Waverly Black Shale, 20 feet.	
Berea Grit, 60 feet	Waverly Quarry Stone, 50 feet.	
Bedford Shale, 75 feet	Waverly Shale, 75 feet.	
Cleveland Shale	Upper beds of Great Black Shale ?	

The identification of the upper four members of the groups is certain. As to the Cleveland Shale, the question is still open.

Dr. Newberry identified the Sunbury and Harlem Quarries of Delaware

county as Berea Grit. (see Geology of Ohio, Vol. II, page 97.) At least the red shale below the quarry stone, he recognized as the Bedford Shale, but he did not at that time question the identification previously announced of the Waverly Black Shale and the Cleveland Shale. When, therefore, it was found that the Sunbury Stone was in the horizon of the Lower Waverly Quarry Courses, its reference to the Berea was rejected, the latter stratum being still regarded as the equivalent of the Buena Vista Stone. (See Geology of Franklin county, Vol. III, page 642.)

Professor N. H. Winchell in his reports on Crawford, Morrow, and Delaware counties, (Geology of Ohio, Vol. 2), made the true reference of their sandstone quarries to the Berea Grit, but he probably relied in his determinations more on lithological characters than on the general section—for he seems to be in error in regard to the stratigraphical order—recognizing the Cleveland, Erie, and Huron Shales as distinct and definite elements, whereas they are certainly blended in one formation here, if they are all present.

The Berea Sandstone is the first building stone to be reached, after leaving the limestone outcrops already described, in ascending the geological scale of the State. There is always a tract from ten to twenty miles broad to the west or north of it that is entirely destitute of stone—the tract, namely, that constitutes the outcrop of the shales that lie immediately below it in the series. It is upon this fact, in part, that its great value depends. Such a stratum would be serviceable in any part of our geological column, but there is no other portion of our series where a range of building stone could be as useful as at this point.

There is always stone at this horizon, sometimes more and sometimes less—sometimes so excellent as to become the standard for comparison throughout the country, and sometimes so irregular and ungainly as to be worthless for all but the very coarsest uses; but in all but one of the twenty-one counties traversed by it, there are valuable quarries already opened in it.

Its course and development throughout the State will now be briefly described.

It enters the State from Pennsylvania in Williamsfield, the south-eastern township of Ashtabula county. Its outcrop passes southward from there into Kinsman and Vernon townships of Trumbull county, where it yields an abundance of massive and strong building stone. It is worked here only for local supply. It passes northward from Vernon through Gustavus township into Wayne and Cherry Valley townships of Ashtabula county, and thence again southward through Colebrook township, through Greene and Mecca townships, and into Bazetta township of Trumbull county. In Mecca township, it is the Berea Grit which makes

the chief oil-bearing rock, that is invested with increasing economical interest and value. It may be remarked, in passing, that the useful offices of this stratum are by no means confined to supplying the best building stone and grindstone grit of the State, but it is, by way of excellence, the oil-bearing and also the salt-bearing rock of our geological series. It seems to hold a similar place in Michigan and West Virginia, as well.

It can be further traced through Bristol, Champion, Southington, Farmington, and Mesopotamia townships of the same county. In the first three, as in the adjoining townships of Mecca and Greene, the drift deposits are so deep as to preclude the possibility of quarries, but in the two last named townships it is finely exposed, and yields a grindstone grit of excellent quality. The stone can be raised in inexhaustible quantity, and of excellent character, throughout this district.

Passing thence northward again, its outcrop traverses Windsor, Hartsgrove, and Trumbull townships of Ashtabula county. In each of these townships there are quarries now worked for local supply, which are capable of meeting any demand. In Footville, Trumbull township, scythe stones were once manufactured from the Berea Grit, as there exposed.

The stratum is easily followed westward through Geauga and Lake counties. It passes through Thompson and Chardon townships of the former, and through Leroy, Concord, and Kirtland, of the latter county. Numerous quarries are opened all along the line, and though none of them has been worked extensively enough to get the full advantage of the stone, it is safe to say that the stratum has unlimited capacities of service in this district.

The facts relating to the stratum in these counties are derived from Prof. M. C. Read's reports.

It enters Cuyahoga county in Mayfield township, where it constitutes the east boundary of the valley of Chagrin River. It holds the same relation to the valley in Orange township. Crossing the river at Chagrin Falls (the falls being caused by the occurrence of this stratum), it traverses the two townships last named in an outcrop parallel to that upon the east side of the river.

The outcrop thence sweeps around through Euclid, East Cleveland, and Newburgh townships until the valley of the Cuyahoga River is reached. It ascends this valley through Independence and Bedford townships, the whole line of outcrop giving possibility of quarries of great excellence. It passes into Summit county and crosses Northfield township and Boston as far as Peninsula. Here extensive and well-

known quarries are worked, which send annually a large quantity of excellent stone into the market. Returning on the west bank of the river the stratum passes through Brecksville township, Cuyahoga county, and from thence again through Independence, where it forms bold bluffs, in which one of the most extensive and valuable quarries of the formation is wrought. More than 5,000 tons of grindstones have been quarried here in a single year, and scarcely any portion of this great stratum is in higher repute as a building stone.

The formation is easily traced through Parma township, though mainly covered by the Drift, to Middleburg township, in which the village of Berea is situated. The annual products of the great quarries that are worked at this point exceed \$500,000 in value. The quality of the stone for building, for flagging, and for grindstone grit, is unsurpassed in the country. The same quality and quantity of the stone are accessible in Olmsted township, where, also, it is extensively worked.

The stratum enters Lorain county in Ridgeville township, but its tortuous line of outcrop along the valleys of Black River and its tributaries it is not necessary here to trace. The stone is exposed in more than half the townships of the county, while at Amherst and Brownhelm, quarries are found which vie in extent and excellence with the best of the formation. They have, indeed, some points of superiority over even the Berea stone, their shades of color being preferred by many. At Elyria, also, there is a great showing of the formation, but it has not been found to exhibit its best qualities at this point. The annual production of the Berea grit in Lorain county must compare well with that of Cuyahoga county.

From Brownhelm township the formation passes into Erie county, its line of outcrop passing through Vermilion, Florence, and Berlin townships. In the last named township it constitutes the bold headland of Berlin Heights. Extensive quarries are opened in this exposure.

From Erie county it passes into Huron county, traversing the townships of Townsend, Norwalk, Bronson, Peru, Greenfield, and New Haven. It no longer shows the great excellence which marks it at Berea and Amherst. It is also generally reduced in quantity as well as in character. Still it is a great reliance for local supplies, and quarries are opened in it in every one of the townships named above but one. It has suffered great disturbance on many of its outcrops from the great glacier which passed out of Lake Erie to the southward over this region.

From Huron county the Berea sandstone passes in a direction west of south through Plymouth township, Richland county, where several quarries of rather inferior quality are opened, into Auburn township,

Crawford county. It can be traced very distinctly southward through this county, quarries being opened in it in Vernon, Jackson, and Polk townships. It attains a thickness of thirty-five to forty feet, and yields a large supply of valuable building stone of fair quality.

It follows nearly a north and south line in traversing Morrow county. It is opened for local use in Washington, Gilead, and Lincoln townships, and must cross Peru and Bennington townships, though no report is given of it here.

It traverses Kingston, Berkshire, and Harlem townships of Delaware county, quite extensive quarries being opened in the two last named townships. The Sunbury quarries have been a center of distribution for a number of years, and can yield an indefinite amount of excellent stone. The line crosses three townships of Franklin county, viz., Blendon, Mifflin, and Jefferson, but in the latter the stone is quite largely worked. From the Black Lick quarries, eight miles east of Columbus, the stone used in the building of the State Asylum for the Blind was taken, and also for a number of other prominent buildings in Columbus. There are not less than fifty feet in the Black Lick section, but only a few courses are entirely trustworthy. The line sways to the eastward from the last named exposure, passing through Violet and Bloom townships of Fairfield county.

The stratum shows less value in Fairfield county than at almost any other point along its long line. It is reduced in thickness and irregular in bedding. It happens, however, that another series of beds is found here which is very well developed in the southern part of the State, viz., those composing the Buena Vista stone, which *overlies* the Waverly black shale. To this horizon the excellent quarries of Lithopolis belong.

The Berea sandstone enters Pickaway county in Madison township, and passes through Walnut and Washington townships, but its development in this county has not been reported upon. Its presence, however, is assured by the identical sections found both north and south of this area. It is very largely developed in Ross county, its western margin being found in outliers of large extent on the west side of the Scioto River. It occupies the highlands of Deerfield, Union, Concord, Buckskin, and Paint townships of Ross county, and similarly situated lands in Marshall and Brush Creek townships, Highland county, and passes through Franklin, Meigs, Jefferson, and Greene townships of Adams county to the Ohio River, which it overhangs in bold highlands, between the mouth of Brush Creek and the village of Rockville. But no adequate idea of its extent and value through this territory can be given by such a sketch. Its western boundary has been indicated, but here it lies 600

feet above the deeper valleys, and consequently an immense amount of the stone will be shown before the slight easterly dip of the strata carries this formation below drainage. The Scioto Valley and all its leading tributaries are walled with it for many miles. Pike county, in particular, holds enough of the Berea sandstone to meet all the demands of the State for centuries. The stone regains in Ross county and southward its good character to a great degree. At Waverly and in its vicinity the stone has been longest worked. The distribution has been thus far mainly effected by the Scioto Valley Canal, but railroads are now giving it the means of wider circulation. It cannot be claimed, however, that this stratum attains, anywhere in Southern Ohio, all of the excellent qualities which have given to the northern quarries so high a reputation. The products of the southern quarries are nowhere as uniform as are those of the north, but individual quarries and courses are scarcely surpassed in quality. The formation in Southern Ohio yields but infrequently a good grindstone-grit.

A variegated stone of great beauty and excellence is furnished by hill quarries on the west side of Pike county. This variety will certainly be sought for if it is ever rendered accessible. Not only is the Berea sandstone of Southern Ohio at some disadvantage when compared with the best stone of Northern Ohio, but it is overshadowed to some extent by the great building-stone horizon just above it in the geological scale, viz., the Buena Vista stone, or city ledge, which is so just a favorite in all of the towns on the Ohio River. It was this stratum, as has been already said, that the Berea of the north was made to represent, under the erroneous identification of the Cleveland and Waverly black shales.

Enough has now been said to justify the claim made for the Berea sandstone at the beginning of this article, viz., that it is one of the most interesting and important members of our whole geological series. Its economical interest is shown in the fact that it is already yielding annually products amounting to several millions of dollars, the building stones and grindstones derived from it being the standard of excellence for the eastern United States, while as a reservoir of petroleum and salt water, it plays a very important part in the production of two other great staples. Its geological interest is found in the fact that it gives the means of correlating with ease and certainty the various elements of that much disputed series, the Waverly group.

OHIO STATE UNIVERSITY, April 21, 1879.

MANUFACTURING STATISTICS.

TABLE SHOWING THE AMOUNT OF CASTINGS MADE IN OHIO, AS REPORTED BY THE
ASSESSORS TO THE COUNTY AUDITORS IN MAY, 1878.

Counties.*	Stoves and bol- low-ware.	Car wheels.	Plows.	All other cast- ings.	Wheat drills and corn planters.
	Tons.	Tons.	Number.	Tons.	Number.
Belmont	1,125			315	
Butler	150		5,800		
Carroll			100		
Champaign	100		3,000	100	500
Clarke			35		
Columbiana	1,200			400	
Cuyahoga	4,400	2,750	200	8,054	
Delaware			25		
Fairfield			4,600		
Gallia				100	
Hamilton	10,000	2,200	1,143	7,318	
Highland				226	
Holmes	40		60		
Huron			450	300	
Jefferson	452			450	
Lake	200		25	334	
Lawrence	550				
Lorain	50				
Lucas		450	1,500	1,280	
Mahoning				349	
Meigs	4	20		200	
Miami			450	185	3,000
Montgomery		4,800	4,900	2,600	
Morgan			16,000		
Perry	4		20	18	
Pickaway	15		75	100	
Portage				1,241	
Richland				4,100	
Sandusky			600		
Scioto	300			400	
Seneca	150			200	
Stark			6,050	250	
Summit	1,079			265	
Trumbull	130	20	145	50	
Tuscarawas	2		290		
Washington	300			100	
Wayne			15	10	
Totals	20,251	10,240	39,483	28,945	3,500

* Other counties not reported.

TABLE SHOWING THE NUMBER OF LOCOMOTIVES, STEAM ENGINES, STEAM BOILERS, SUGAR MILLS, REAPING, MOWING, AND THRESHING MACHINES, AND PORTABLE SAW-MILLS MADE AND IN USE IN OHIO, AS REPORTED BY THE ASSESSORS TO THE COUNTY AUDITORS IN MAY, 1878.

Counties.*	Locomotives.	Steam engines.	Steam boilers.	Sugar mills.	Portable saw-mills.		Reaping machines.	Mowing machines.	Threshing machines.	Sewing machines.
	No. built.	No. made.	No. made.	No. made.	No. made.	No. in use.	No. made.	No. made.	No. made.	No. made.
Athens					1	1				
Belmont		3					50	150	108	
Brown						3				
Butler		34	34		7	2			27	
Carroll						4				
Clarke		203	200			2	16,500	8,500	143	
Columbiana		42	24		7					
Coshocton						1				
Cuyahoga	2	47	168							46,800
Delaware						12				
Erie		10			1	2	50	1		
Fairfield						21				
Fulton						2				
Gallia		2		20	1					
Geauga						4				
Hamilton	4	291	43		29				55	
Highland						9				
Holmes						6				
Huron	3	6								
Jackson						1				
Jefferson		1				5				
Knox		125	130		50	2				
Lake			15							
Lorain						5				
Lucas		53						50		
Madison						1				
Marion		12	12		4	13				
Meigs			1	1		4				
Miami		3			2	9			91	
Monroe						16				
Morgan									5	
Morrow						11				
Perry						2				
Pickaway		1			2	4				
Portage						5				
Richland		287			50	14			582	
Sandusky		45	45			1	800	1,000		
Scioto		4	16							
Stark		218	110			1	5,391		1,714	
Summit			73			4	6,800	3,000		
Trumbull		5	65		1					
Tuscarawas						1	300	300		
Van Wert						18				
Washington						1				
Wayne							600	100		
Wood					7	7				
Totals.....	9	1392	936	21	162	194	30,491	13,101	2,725	46,800

* Other counties not reported

TABLE SHOWING THE NUMBER AND VALUE OF STEAMBOATS, SAIL VESSELS, FLAT BOATS, CANAL BOATS, AND BARGES BUILT IN OHIO, AS REPORTED BY TOWNSHIP ASSESSORS TO COUNTY AUDITORS IN MAY, 1878.

Counties.	Steamboats, barges, and flat boats built on the Ohio river and its tributaries.						Boats and sail vessels built upon Lake Erie and its tributaries.				Canals.	
	Steamboats.		Flat boats.		Barges.		Steamboats.		Sail vessels.		Canal boats.	
	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
Adams	2	\$4,000	4	\$2,300	2	\$750	---	---	---	---	---	---
Athens	---	---	---	---	4	2,000	---	---	---	---	---	---
Brown	---	---	13	7,000	1	500	---	---	---	---	---	---
Columbiana..	1	8,000	---	---	1	500	---	---	---	---	---	---
Coshocton....	---	---	---	---	---	---	---	---	---	---	1	*
Cuyahoga....	---	---	---	---	---	---	3	\$290,000	4	\$4,800	---	---
Erie	---	---	---	---	---	---	2	9,500	1	15,000	---	---
Hamilton	16	399,000	---	---	4	1,400	---	---	---	---	---	---
Jefferson	---	---	2	700	---	---	---	---	---	---	---	---
Lake	---	---	---	---	---	---	1	2,500	---	---	---	---
Lawrence	---	---	---	---	4	3,000	---	---	---	---	---	---
Lorain	---	---	---	---	---	---	---	---	1	6,000	---	---
Meigs	---	---	5	2,250	2	550	---	---	---	---	---	---
Monroe	---	---	3	1,800	---	---	---	---	---	---	---	---
Washington..	1	1,000	---	---	2	300	---	---	---	---	---	---
† Totals.....	20	\$412,000	27	\$14,050	20	\$9,000	6	\$302,000	6	\$25,800	1	----

* Value not reported.

† Other counties not reported.

TABLE SHOWING THE AMOUNT OF LIME AND WATER CEMENT PRODUCED, AND STONEWARE MANUFACTURED IN OHIO AS REPORTED BY TOWNSHIP ASSESSORS TO THE COUNTY AUDITORS IN MAY, 1878.

Counties.	Lime.	Water cement.	Stoneware.
	Number barrels made.	Number barrels made.	Number gallons made.
Adams.....			120,000
Ashtabula.....	4,000		
Belmont.....	200	4,500	
Clarke.....	102,500		
Columbiana.....		17,620	125,000
Cuyahoga.....	115,000		
Darke.....	600		
Delaware.....	600		
Erie.....	30,000		
Greene.....	114,000		
Hamilton.....	5,290		
Hancock.....	4,000		
Highland.....	15,000		
Hocking.....			42,000
Jackson.....	100		
Lawrence.....	40		
Logan.....	3,300		
Mahoning.....	970		72,000
Marion.....	10,000		
Mercer.....	2,100		
Miami.....	21,633		
Montgomery.....	320		
Morgan.....			35,000
Ottawa.....	156,335	3,200	
Perry.....	766		914,200
Pickaway.....	1,500		
Portage.....	800		658,375
Preble.....	15,333		
Putnam.....	500		
Sandusky.....	85,000		
Seneca.....	4,300		
Stark.....	8,882		95,230
Summit *.....	500		3,878,500
Tuscarawas.....	5,000		
Van Wert.....	3,700		
Vinton.....			42,000
Wayne.....	500		
Wood.....	4,266		
Totals.....	717,035	25,320	5,

* Summit county also reports 1,000,000 fire-brick, 4,000,000 stone pipes for smokers, and 40,000 gross of matches.

BUILDING STATISTICS.

COUNTY BUILDINGS.

TABLE SHOWING THE NUMBER AND VALUE OF COUNTY BUILDINGS ERECTED WITHIN THE YEAR, TOGETHER WITH THE TOTAL NUMBER NOW EXISTING, AS REPORTED BY COUNTY AUDITORS.

Counties.	County buildings erected within the year ending June 30, 1878.		All county buildings now existing.	
	Number.	Value.	Number.	Value.
Adams			3	\$40,000
Allen			3	83,000
Ashland			3	40,000
Ashtabula	1	\$11,000	6	56,000
Athens			2	20,900
Auglaize			3	44,000
Belmont			7	104,500
Brown			4	80,000
Butler	1	1,500	5	50,000
Carroll	1	3,000	5	15,000
Champaign			5	40,000
Clarke	1	20,000	6	100,000
Clermont			4	25,000
Clinton			3	100,000
Columbiana			3	180,000
Coshocton			3	115,000
Crawford				
Cuyahoga			2	600,000
Darke			3	190,000
Defiance			7	125,000
Delaware			2	90,000
Erie			4	180,000
Fairfield			4	171,000
Fayette			4	
Franklin			4	90,000
Fulton			4	80,000
Gallia			2	12,000
Geauga			6	108,950
Greene			4	129,000
Guernsey			3	25,000
Hamilton			3	2,200,000
Hancock			3	25,000
Hardin			2	65,000
Harrison			3	40,000
Henry			3	20,000
Highland			3	
Hocking			4	75,000
Holmes	†	22,000	†	202,000
Huron			14	73,000
Jackson			†	59,250
Jefferson			3	275,000
Knox	1	95,000	4	225,000

NUMBER AND VALUE OF COUNTY BUILDINGS IN OHIO—Continued.

Counties.	County buildings erected within the year ending June 30, 1878.		All county buildings now existing.	
	Number.	Value.	Number.	Value.
Lake			3	\$50,000
Lawrence	1	\$5,000	4	44,000
Licking	1	180,000	3	255,000
Logan			3	150,000
Lorain			3	13,500
Lucas			4	117,500
Madison			2	45,000
Mahoning			3	129,000
Marion			2	4,850
Medina			3	50,000
Meigs	1	12,000	3	20,000
Mercer	1	500	5	100,500
Miami			4	95,000
Monroe			3	50,000
Montgomery			5	500,000
Morgan			3	40,000
Morrow			3	50,000
Muskingum			5	825,000
Noble	1		3	40,000
Ottawa			3	25,000
Paulding			4	25,000
Perry			2	25,000
Pickaway			2	150,000
Pike			3	50,000
Portage			3	70,000
Preble			3	50,000
Putnam	1	8,450	4	48,450
Richland			3	197,825
Ross	1	25,000	3	275,000
Sandusky			3	60,000
Scioto	1	10,000	1	90,000
Seneca	2	26,000	4	42,000
Shelby			3	116,000
Stark			3	225,000
Summit			3	160,000
Trumbull			3	100,000
Tuscarawas			3	25,000
Union			3	70,000
Van Wert			4	120,000
Vinton			4	36,000
Warren			4	150,000
Washington			8	60,000
Wayne			3	180,000
Williams			5	•
Wood			3	40,000
Wyandot			4	50,000
Totals	13	\$419,450	310	\$11,682,325

* Value not reported.

† Number not reported.

‡ None reported.

§ Not reported; number and value estimated from previous reports.

TABLE SHOWING THE NUMBER AND VALUE OF NEW STRUCTURES, AS REPORTED BY COUNTY AUDITORS, FOR THE YEAR ENDING, APRIL 12, 1878.

Counties.	Churches.		County buildings.		Dwellings.		Factories.		Glass works.		Hotels.		Furnaces, iron.		Machine shops.		Flouring mills.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Adams.....	52	\$17,567	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Allen.....	139	45,355	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	\$1,309	.....
Ashland.....	77	32,230	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	500	.....
Ashabula.....	175	59,973	2	\$1,025	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Athens.....	64	15,965	1	1,500	.....	.....	1	\$1,000	1	\$25,000	.....	.....	1	1,200
Auglaize.....	79	25,120	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	5,200	.....
Belmont.....	106	52,362	.....	.....	.....	.....	1	1,200	.....	.....	.....	.....	.....	.....
Brown.....	59	17,000	1	550	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Butler.....
Carroll.....	42	14,361	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Champaign.....	116	71,570	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1,000	.....
Clarke.....	2	\$14,000	1	\$20,000	214	140,880	.....	.....	.....	.....	.....	.....	.....	.....	1	\$30,980	1	1,000
Clermont.....	108	40,930	.....	.....	1	\$1,000	.....	.....	.....	.....	.....	.....	.....	.....
Clinton.....	104	71,700	.....	.....	.....	.....	1	2,800	.....	.....	.....	.....	1	500
Columbiana.....	1	35,000	.....	.....	81	48,285	1	250	.....	.....	.....	.....	.....	.....	.....	.....	2	2,950
Coshocton.....	86	37,255	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Crawford.....	140	69,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cuyahoga.....	1	100,000	.....	.....	853	416,500	13	33,370	.....	.....	1	2,500	3	9,706	.....	1	1,600	.....
Darke.....	153	50,160	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Defiance.....	167	39,360	6	12,850	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Delaware.....	2	5,000	.....	.....	127	61,048	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1,600
Erie.....	108	32,090	.....	.....	.....	.....	.....	.....	.....	.....	1	150	.....	.....
Fairfield.....	1	3,000	.....	.....	154	65,330	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fayette.....	1	3,000	.....	.....	60	41,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Franklin.....	365	456,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fulton.....	73	13,170	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gallia.....	73	22,750	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Geauga.....	39	11,250	1	300	.....	.....	1	1,300	.....	.....	.....	.....	.....	.....
Greene.....	123	101,757	.....	.....	.....	.....	1	800	.....	.....	.....	.....	.....	.....
Guernsey.....	76	26,150	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hamilton.....	977	1,393,790	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2,000
Hancock.....	105	37,050	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

TABLE SHOWING THE NUMBER AND VALUE OF NEW STRUCTURES, AS REPORTED BY COUNTY AUDITORS, ETC.—Continued.

Counties.	Churches.		County buildings.		Dwellings.		Factories.		Glass-works.		Hotels.		Furnaces, iron.		Machine shops.		Flouring mills.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
Shelby	3	\$3,500	.....	.....	43	\$36,320	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stark .....	.....	.....	.....	.....	170	61,220	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Summit	1	3,000	.....	.....	232	117,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Trumbull .....	.....	.....	.....	.....	107	39,025	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tuscarawas .....	.....	.....	.....	.....	94	46,964	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Union	2	3,500	.....	.....	137	50,900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Van Wert .....	.....	.....	.....	.....	45	15,625	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vinton .....	.....	.....	.....	.....	21	6,225	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Warren .....	.....	.....	.....	.....	78	49,781	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Washington .....	.....	.....	.....	.....	89	26,185	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wayne .....	.....	.....	.....	.....	131	55,785	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Williams .....	.....	.....	.....	.....	79	19,770	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wood .....	.....	.....	.....	.....	198	56,610	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wyandot	2	5,000	.....	.....	127	120,720	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	20	\$224,500	10	\$393,450	10,900	\$6,049,763	50	\$73,845	1	\$1,000	12	\$50,210	16	\$236,728	24	\$44,690	44	\$92,750

TABLE SHOWING THE NUMBER AND VALUE OF NEW STRUCTURES, ETC.—Continued.

Counties.	Saw-mills.		Public halls.		Railway station houses.		School-houses.		Stores.		Shops and other business houses.		Miscellaneous.		Total value.
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	
Adams	18	\$3,150	\$20,717
Allen	46	10,935	62,540
Ashtabud	42	12,950	45,960
Ashtabula	50	7,632	73,325
Athens	\$5,000	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53,890
Augsburg	37	10,000	39,720
Belmont	600	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	29	6,000	67,357
Brown	30	4,950	25,275
Butler	192	122,085	122,085
Carroll	6	3,500	19,041
Champaign	41	14,970	102,270
Clarke	1	\$1,000	1	600	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	221,250
Clermont	30	6,250	50,330
Clinton	31	12,950	113,960
Columbiana	20,000	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	900	90,285
Coshocton	2	850	1	7,000	.....	.....	.....	.....	.....	.....	.....	.....	16	3,185	41,790
Crawford	49	12,035	81,345
Cuyahoga	3	560	1	4,000	.....	.....	.....	.....	.....	.....	.....	.....	97	15,810	762,510
Darke	58	11,800	70,340
Defiance	53	6,175	66,175
Delaware	57	10,495	73,143
Erie	39	5,335	44,360
Fairfield	72,780
Fayette	1	550	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14	6,400	61,400
Franklin	40	30,000	515,000
Fulton	42	5,320	28,615
Gallia	4	1,025	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	2,172	30,622
Geauga	25	3,600	19,650
Greene	1,550	.....	.....	.....	.....	.....	.....	.....	.....	47	10,060	135,037
Guernsey	16	3,750	31,325
Hamilton	1,698,790
Hancock	305,000	.....	.....	.....	.....	.....	.....	.....	.....	51	13,145	71,428

TABLE SHOWING THE NUMBER AND VALUE OF NEW STRUCTURES—Continued.

Counties.	Saw-mills.		Public halls.		Railway station houses.		School-houses.		Stores.		Shops and other business houses.		Miscellaneous.		Total value.
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	
Hardin.....	8	\$9,075	.....	.....	34	\$6,225	\$68,100
Harrison.....	15	3,550	14,800
Henry.....	4	\$2,000	5	3,000	10	\$1,500	.....	.....	16,500
Highland.....	1	900	3	1,050	.....	.....	16	1,250	33,825
Hocking.....	3	4,200	3	1,775	13	2,510	111,310
Holmes.....	71,350
Huron.....	12	8,000	1	500	.....	.....	60,170
Jackson.....	45	5,000	94,710
Jefferson.....	1	300	3	1,000	9	1,475	24,710
Knox.....	1	\$400	.....	.....	.....	.....	2	1,200	3	500	.....	.....	8	1,650	37,030
Lake.....	23	3,845	136,405
Lawrence.....	1	600	1	\$2,400	.....	.....	1	300	2	5,620	4	750	43	6,576	48,370
Licking.....	11	16,702	1	300	5	11,247	87,213
Logan.....	34	11,165	263,922
Lorain.....	4	32,100	1	10,000	5	2,705	38	8,020	96,055
Lucas.....	3	1,050	.....	.....	.....	.....	.....	.....	3	3,000	.....	.....	58	12,000	79,800
Madison.....	42	46,560	.....	.....	50	7,280	116,480
Mahoning.....	2	1,200	1	550	.....	.....	3	2,000	.....	.....	1	700	15	2,820	47,030
Marion.....	1	800	.....	.....	.....	.....	.....	.....	12	16,300	1	2,500	43	10,400	19,925
Medina.....	1	5,000	40	8,205	55	13,370	116,570
Meigs.....	21	32,705	.....	.....	.....	.....	55,905
Mercer.....	8	5,500	.....	.....	.....	.....	28	5,157	68,415
Miami.....	5	8,400	4	650	36	6,255	29,770
Monroe.....	77	18,350	94,724
Montgomery.....	28	5,675	18,410
Morgan.....	2	3,900	57	20,650	218,640
Morrow.....	8	4,053	.....	.....	.....	.....	4	1,000	20,728
Muskingum.....	3	2,500	4	7,800	9	1,290	.....	.....	94,840
Noble.....	5	5,800	.....	.....	36	10,310	142,540
Ottawa.....	2	200	.....	.....	16	2,025	7,150
Paulding.....	1	300	.....	.....	.....	.....	.....	.....	3	2,500	5	2,650	61	9,200	42,230
Perry.....	1	116	.....	.....	12	2,530	11,563
	3	800	.....	.....	.....	.....	2	150	1	800	12	3,100	116,400

Pickaway	36	\$21,685	22	\$411,475	21	\$15,478	140	\$335,557	405	\$457,284	350	\$122,250	2,907	\$804,264	\$9,364,929
Pike	1	150	2	500	2	800	...	...	1	600	1	15,000	36	21,918	93,635
Portage	1	150	2	500	2	800	...	...	4	2,250	3	385	23	3,540	21,757
Preble	...	...	...	...	...	...	...	...	2	400	2	200	69	16,490	56,660
Putnam	...	...	...	...	...	...	...	...	1	1,030	...	...	59	20,207	101,709
Richland	2	1,100	...	...	...	...	...	...	4	4,630	1	2,500	35	4,920	27,475
Ross	1	800	...	...	2	600	...	...	9	10,350	3	4,665	46	11,450	78,100
Sandukey	...	...	...	...	3	4,728	...	...	9	10,350	3	1,900	45	9,850	106,800
Scioto	...	...	...	...	...	...	...	...	2	2,200	14	4,410	55	19,130	112,194
Seneca	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26,855
Shelby	1	1,300	...	...	...	3	41,500	...	...	...	...	...	79	18,005	189,960
Starke	1	350	...	...	...	...	...	...	9	3,400	54	21,500	7	1,600	42,720
Summit	1	900	2	1,500	...	...	...	...	12	30,400	11	5,500	69	18,100	88,220
Trumbull	2	1,050	1	175	...	6	24,100	...	10	5,600	...	200	50	8,365	229,400
Tuscarawas	1	1,500	...	...	...	5	2,400	...	8	6,500	...	...	...	...	54,715
Union	...	...	1	15,000	...	6	3,000	...	2	3,400	...	...	47	11,600	66,774
Van Wert	...	...	...	...	...	...	...	...	...	...	...	...	...	...	90,500
Vinton	...	...	...	...	...	...	...	...	...	...	...	...	16	1,260	20,285
Warren	2	2,000	1	45,000	...	...	...	...	5	1,965	...	...	35	10,540	20,285
Washington	1	800	...	...	...	8	5,036	...	6	2,060	57	8,170	...	...	41,241
Wayne	...	...	...	...	...	9	22,949	...	4	2,960	...	...	80	21,530	105,314
Williams	...	...	...	...	...	7	16,700	...	4	1,600	...	...	...	...	40,570
Wood	3	1,600	...	...	...	7	4,416	...	14	3,950	4	650	56	8,570	78,006
Wyandot	1	2,000	...	...	...	13	14,300	...	2	6,000	...	...	44	28,600	187,620
Totals	36	\$21,685	22	\$411,475	21	\$15,478	140	\$335,557	405	\$457,284	350	\$122,250	2,907	\$804,264	\$9,364,929

* Number not reported.

BUILDINGS AND OTHER PROPERTY DESTROYED BY FIRE, ETC.

TABLE SHOWING THE VALUE OF PROPERTY DESTROYED BY FIRE, FLOOD, OR OTHER CAUSES IN OHIO DURING THE YEAR ENDING JUNE 30, 1878.

Counties.	Public buildings destroyed by fire.		All other buildings destroyed by fire.		Buildings destroyed by floods.		Buildings destroyed by other causes.		Other property destroyed by fire or flood.	Total.
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	Value.	
Adams			2	\$600						\$600
Allen			15	5,067						5,067
Ashland			6	2,524						2,524
Ashtabula	1	\$200	16	6,235						6,435
Athens			12	8,731						8,731
Anglaize	1	1,100					4	\$1,600		2,700
Belmont			4	4,761			1	150		4,911
Brown			4	580						580
Butler			6	5,690			5	4,030		9,720
Carroll			10	2,000						2,000
Champaign			4	850						850
Clarke			7	3,920						3,920
Clermont	1	6,000	15	5,950	1	175	1	400		12,525
Clinton			3	3,000						3,000
Columbiana			15	7,908						7,908
Coshocton			12	7,935						7,935
Crawford			4	1,900						1,900
Cuyahoga							38	30,390		30,390
Darke			2	680			1	100		780
Defiance			3	2,250						2,250
Delaware									\$3,445	3,445
Erie			19	8,025	1	2,000	3	400		10,425
Fairfield			2	450			1	700		1,150
Fayette			2	800						800
Franklin*										
Fulton	3	4,500	6	560						5,060
Gallia			3	800						800
Geauga			2	160						160
Greene			4	1,350			5	950		2,300
Guernsey			7	2,605						2,605
Hamilton			12	61,800						61,800
Hancock			11	4,314						4,314
Hardin			3	1,500						1,500
Harrison			3	1,200						1,200
Henry			4	1,000					500	1,500
Highland*										
Hocking			1	300						300
Holmes			7	3,550						3,550
Huron			15	3,370						3,370
Jackson*										
Jefferson			1	3,000						3,000
Knox			3	1,800	1	726	1	484		3,010
Lake			2	250						250
Lawrence			2	350						350
Licking			7	4,850						4,850
Logan			8	2,090						2,090
Lorain			11	4,000						4,000
Lucas			11	4,930						4,930
Madison			10	2,790						2,790
Mahoning			28	9,000						9,000
Marion			4	1,450			1	105		1,555

BUILDINGS AND OTHER PROPERTY DESTROYED, ETC.—Continued.

Counties.	Public buildings destroyed by fire.		All other buildings destroyed by fire.		Buildings destroyed by floods.		Buildings destroyed by other causes.		Other property destroyed by fire or flood.	Total.
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	Value.	
Medina			10	\$2,600						\$2,600
Meigs			8	5,043						5,043
Mercer			4	630			3	\$4,680		5,310
Miami			3	685			4	1,030		1,715
Monroe									\$704	704
Montgomery			3	1,150						1,150
Morgan			2	1,950			1	870		2,820
Morrow			1	600						600
Muskingum			4	1,000			12	14,500		15,500
Noble*										
Ottawa			9	3,400						3,400
Paulding	1	\$2,500					1	116		2,616
Perry			1	120			5	990	2,500	3,610
Pickaway			1	300						300
Pike*										
Portage			6	1,150			2	1,100		2,250
Preble			7	1,475						1,475
Putnam			5	1,600						1,600
Richland	1	4,500	10	3,500						8,000
Ross							2	2,080		2,080
Sandusky			2	750						750
Scioto			2	3,700						3,700
Seneca			10	2,454					1,000	3,454
Shelby									1,300	1,300
Stark			8	2,700			6	1,175		3,875
Summit			11	5,500			1	15,900		21,400
Trumbull			11	13,918						13,918
Tuscarawas			12	11,282						11,282
Union			5	4,000						4,000
Van Wert	2	2,400								2,400
Vinton			3	625						625
Warren			6	1,890						1,890
Washington			10	3,645	1	500	11	2,558		6,703
Wayne			5	2,110						2,110
Williams			7	1,995						1,995
Wood			8	3,430						3,430
Wyandot*			5	2,000						2,000
Totals ...	10	\$21,200	507	\$282,081	4	\$3,401	109	\$84,308	\$9,449	\$400,439

*None reported.

GENERAL REVIEW OF THE TRADE AND COMMERCE OF CINCINNATI.

BY SIDNEY D. MAXWELL,

Superintendent of Cincinnati Chamber of Commerce.

At the time of the review of the business of the city one year ago, there were many evidences of the country having entered on an improved condition. How far these were traceable to the abundant crops, and the temporary stimulation given to trade by the simultaneous outlay throughout the farming districts of the partial proceeds of the same, to meet urgent and delayed wants, was not clear, though there was much better reason to believe a permanent change had come, than had existed at any corresponding period since the depression had begun. The subsequent events did not by any means fulfill the hopes generally of the business men of the country. After the first of October, the merchants and moneyed men became anxious concerning the future, and people generally settled back into their conservative habits of keeping as near a good harbor as possible. The shrinkage in values of commodities, which was generally thought to have reached a conclusion the year before, continued, until it became one of the distinguishing features of the year, while the whole period was marked by failures, large or small, throughout all parts of the country. As the summer approached, and especially as the dawn of a singularly generous harvest again broke upon the country, and the conviction gained ground that the resumption of specie payments, to which we were steadily gravitating, would not be interrupted, there were marked indications of a revival in business. Freights began to crowd upon the transportation lines, country merchants were generally encouraged, manufacturers found larger inquiry for their products, and there was manifest an improved tone to the whole business health of the country. These, however, were tempered, in no little degree, by the unfavorable operation of the bankrupt law, with its dangerous temptations and iniquitous facilities for fraud, and by the great business shadow which overspread the country, and especially this part of it, as the pestilence, which commenced in New Orleans in mid-summer, marched northwardly and into the interior of the South with alarming persistency. These, however serious at the time, were temporary, the latter having been destined to yield to the merciful frosts, and the former, fortunately,

to expire by limitation. Barring the necessary results of these influences, there can be entertained no doubt of a steady improvement having occurred. It has not been sudden, and consequently to some it may not seem to exist, for there have been those who expected some miraculous development which could never come. The conviction has become general that we have entered upon a better condition, which, with business so largely resting on faith, must go far to secure the result desired, or without which no permanent improvement could exist, even with other conditions favorable. The weak members of the business body have mainly fallen. The number of persons in business has been reduced. The farmers of the country are generally in good condition, and though their products are commanding low prices, the purchasing power of the equivalent they receive for their grain is far greater, relatively, than is generally believed. The common carriers of the country, tired of their useless wars, have sought to repair their wasted energies by a better understanding, and are generally making an improved showing. Money is ample and cheap. Capital in abundance, though instinctively cautious, awaits investment when it can be assured that improved business absolutely demands it. The people, through trial, have learned lessons of economy which will last through many years, and, more than all, in its bearing on the business future of this country, and its influence on other nations, urged by a necessity as strong as the instincts of self-preservation, the search in the past five years for cheaper processes, lower priced materials, and more economical management generally, has so reduced the cost of production, that our products have flowed out to other nations to an extent and in a variety that has had no parallel in the history of the country. From these business sorrows have thus dawned a supremacy to American manufactures which stamps the period as an epoch. These conditions are general, and yet, in the main, they apply equally well to Cincinnati, and in their light the business of the year must be measured, for while they furnish explanation of reduced aggregate values on the one hand, they give the larger significance to the manner in which Cincinnati has maintained her position, when measured by the only true standard, which is quantity. In this connection, it may be proper to allude more specifically to the decline which has taken place in prices during the past year. Pleasant as it might have been to indulge hopes that values one year ago had reached their lowest stage, the fact remains that there is scarcely an article that does not show a lower average value than it did the year preceding. In some commodities this has been marked, in others, less so, but in the whole it has been sufficient to materially lower the aggregate values in almost all departments of business within the year.

The business in grain, during the past year, shows a material increase, both in quantity and value, and gives promise of a much wider sphere for the grain trade than has ever before been enjoyed. The aggregate receipts of grain of all kinds reached 11,165,697 bushels, in comparison with 8,778,581 in 1876-77, while the shipments were 4,498,608 bushels, compared with 2,716,857 in the previous year. The business in both wheat and barley has had no parallel in the history of the trade here, while corn has been but once exceeded. The aggregate approximate value of all the grain received in the late year was \$7,228,583, compared with \$5,944,106 in the previous year, and of the shipments \$3,995,233, in comparison with \$2,308,986. It will be seen that there was an increase in the receipts of all kinds of grain, in quantity, of 2,387,116 bushels, and in value, of \$1,284,477.

In provisions, though the aggregate values show reduction on account of the material decline in prices, the aggregate shipments of the hog product for the commercial year were 153,239,511 pounds, compared with 140,955,854 in 1876-77. The receipts during the same period were 29,714,126 pounds, and 29,750,418, respectively. The aggregate approximate value of the shipments for the year was \$10,734,410, in comparison with \$12,842,953 in 1876-77, and of the receipts, \$2,054,367, compared with \$2,646,971. Thus it appears that while the aggregate value of the shipments has fallen off \$2,108,543, the aggregate quantity shows an increase of 12,283,657 pounds. The whole number of hogs packed in the winter packing season of 1877-78, was the largest in the history of the city, and promises to be still increased in the year on which we have entered. There were packed in the winter season of 1877-78 632,302 head, in comparison with 523,576 in the preceding year, with aggregate values, respectively, of \$7,540,967 and \$8,488,837.

The year's work in cotton makes a better exhibit than that of the year preceding. Our direct trade with Europe shows an increase. Besides having been here a more satisfactory season to dealers, the movement exhibits an increase over the preceding year, the receipts having been 184,895 bales, with an approximate aggregate value of \$9,660,763, compared with 175,527 bales, and a value of \$9,215,167 in the preceding year, and the shipments 183,983 bales, with an approximate value of \$9,613,111, compared with 171,834 bales, and a value of \$9,021,285.

In flour, the year makes a decidedly better showing, as far as both extent and quality are concerned, though it has by no means been a satisfactory one to millers. Besides an increase in the capacity of our mills here, there was an enlarged movement, the aggregate receipts having been 606,667 barrels, compared with 540,128 in 1876-77, and the shipments

383,954 barrels, in comparison with 296,373. The aggregate approximate value of the imports and exports was \$4,754,976, compared with \$5,648,466 in the preceding year.

The business in whisky, at this city, is so varied, and the work of continuous distillation has so disturbed the relation which highwines and re-distilled goods, in contradistinction from the continuously distilled, sustains to the whole business, that it is not an easy task to arrive at the relation which the past year or two sustained to the preceding years. The actual production of distilled spirits at Cincinnati alone, shows a slight increase over 1876-77, but the distilleries on the Kentucky side of the river exhibit a material reduction. The aggregate production of Cincinnati and the adjacent cities was 10,392,515.09 proof gallons, compared with 10,726,103.50 in the previous year. The aggregate value of the production, without adding the additional value growing out of the spirits mainly having been continuously distilled, would be, approximately, \$10,849,785, in comparison with \$11,434,026 in 1876-77. If to these figures were added the receipts from the interior of all kinds of whisky, it would swell the entire aggregate to 16,058,217 gallons, with an approximate aggregate value of \$18,000,000. But this by no means represents the entire business, for to this must be added the increased value growing out of the processes of continuous distillation, and of rectification, the quantity rectified during the late year in Cincinnati and Covington having been 12,072,483.45 proof gallons, in comparison with 11,443,880.70 in the previous year. The business of rectifying, though largely conducted now by the firms who manufacture the goods from the grain, is a separate one, and, in making comparison with previous years, would have to be so regarded. It will be seen that if to this were added the increased value growing out of rectification, it would largely swell the grand total. The taxes paid on whisky, in the past year, by Cincinnati and the Sixth Kentucky district, aggregated \$9,446,645.23.

The past year, in leaf tobacco, brought to Cincinnati the largest trade she has ever had, and, with the enlarged usefulness of the leaf of this district, more clearly revealed the commanding position which this city is to enjoy in this branch of trade than has any preceding year. The receipts at the warehouses aggregated 39,022 hogsheads, in comparison with 34,133 in 1876-77, while the offerings and sales also exhibited an increase. The whole receipts at Cincinnati, for the year, were 88,280 hogsheads, compared with 71,217 in 1876-77, with an approximate aggregate value, including, also, cases and bales, of \$7,885,090, in comparison with \$6,517,870 in the preceding year. The production of cut tobacco, for the year, at this city, under the influence of a tax regarded onerous

by both manufacturers and producers, the steady growth of tobacco for personal use, and to some extent of an increasing demand for plug tobacco, shows a falling off compared with the previous year, but this, in the grand aggregate, finds partial compensation in the enlarged facilities for the production of plug tobacco, to which our manufacturers are now turning their attention, and in an increased production of smoking tobacco. The aggregate production of chewing and smoking tobacco, for the year, in Cincinnati, Covington, and Newport, was 6,454,156 pounds, compared with 6,632,638½ in the preceding year. The number of cigars made shows a material increase, having been, in the three cities, 103,020,275 cigars, compared with 88,792,375 in 1876-77. The total taxes paid the general government on tobacco of all kinds, in the three cities, were \$2,175,354.33, compared with \$2,130,244.32.

The business in iron does not exhibit material change, save that the old year went out with an improved feeling among producers and dealers. The aggregate sales of pig iron from first hands were 125,912 tons, compared with 129,194 tons in the year 1876-77. The movement of manufactured iron exhibits an increase, and the business, as far as quantity is concerned, doubtless has been well maintained, if not really enlarged. The receipts of nails were the largest in the history of the city, having been 431,245 kegs, compared with 388,025 in the previous year. The business, however, in manufactured iron, was conducted, throughout the year, under circumstances well nigh as disadvantageous as in 1876-77. There was, apparently, an increased consumption, but there was a superabundance of iron, a depressed market, and steadily declining prices until toward the close. But, in both pig iron—which has been more generally distributed from this city perhaps than ever before—and in manufactured goods, there has been a conviction of late that the whole business has entered upon a better condition.

The business in groceries, in all its bearings, has been as satisfactory as any of the great departments of our business. Goods have been sold on slender margins and prices have generally been lower, compared with the preceding years, but there has been among dealers, both here and in the interior, a general conviction that the whole business in this line had reached solid ground. The receipts of coffee for the year aggregated 210,026 bags, compared with 188,844 in 1876-77; of sugar, the equivalent of 252,582 barrels, in comparison with 274,090; of molasses, 51,572 barrels, compared with 44,077. The aggregate approximate value of coffee, sugar, molasses, and rice for the year was \$13,141,282, in comparison with \$14,526,318 in 1876-77.

The year, in the coal trade, was distinguished by low prices, and a large supply, invited by a good navigable river. The receipts of all

kinds aggregated 38,892,229 bushels, compared with 39,622,634 bushels in the preceding year, with an approximate aggregate value, in 1877-78, of \$3,007,260, in comparison with \$3,193,797 in 1876-77. Of the entire receipts, the river contributed 36,798,454 bushels, being a slightly increased per cent. over the preceding year in its relation to the whole quantity.

The aggregate business in salt falls slightly below the preceding year, the receipts of domestic salt, including sales made here for delivery directly from the furnaces, without the same touching Cincinnati, having been 268,663 barrels, in comparison with 281,744. The actual receipts and shipments here, however, have both increased. The business in foreign salt has also been less, the receipts having aggregated 51,148 bags, compared with 56,883 in the preceding year. The aggregate approximate value of all the salt received was \$311,491, compared with \$434,432 in 1876-77.

The manufacturers of soap and candles, distinguished always for the vigorous prosecution of their work, have had a year of great activity, especially in the former. The production of soap here has never been equaled. In addition to such as was consumed here, there were shipped from this city, of soap, 366,802 boxes, while the calendar year will show still larger results. There has been, in soaps alone, an increase in shipments, within two years, of about 100,000 boxes.

In live stock, the business, with the exception of cattle, shows an increase over the previous year. The receipts of hogs were 1,043,334 head, with an approximate aggregate value of \$11,114,772, in comparison with 932,992 head, and a value of \$13,443,083 in the preceding year; of cattle, 173,987, with a value of \$8,226,196, compared with 202,726 head, and a value of \$10,657,336; of sheep, 362,493 head, with a value of \$1,499,042, in comparison with 246,188 head and a value of \$1,006,449, making a total of hogs, cattle, and sheep in value, of \$20,840,010, in comparison with \$25,106,868 in 1876-77, thus showing that, though the number of head of stock has materially increased, the value has largely diminished. The receipts of horses (embracing also mules) were, approximately, 16,506 head, with a value of \$1,209,889. The data for the previous year are not so satisfactory with reference to the actual receipts, though the sales at the stables indicate an increase this year of 3,312 head, and an increase of \$231,366 in aggregate value.

The business in malt liquors, which is steadily increasing the scope of its distribution throughout the country, has been the largest in the history of the trade here, the production of Cincinnati, Covington, and Newport, for the year, having been 18,444,261 gallons, compared with 15,915,896 in 1876-77, showing an increase of 2,528,365 gallons, with an approximate aggregate value in the late year of \$4,601,157, in compari-

son with \$5,134,160, the difference in value being traceable to materially lower prices.

The sales of petroleum, from first hands, exceeded any previous year, having been 217,294 barrels, in comparison with 175,374 in 1876-77. Of the former, there were 183,509 barrels of illuminating oils, in comparison with 140,267 in 1876-77. The production of starch was also the largest in the history of the city, and the product was never before so generally distributed. There were manufactured 21,841,156 pounds, with an approximate aggregate value of \$725,000, compared with 18,800,839 pounds and about the same value in 1876-77. The business in clover and timothy, and grass seeds generally, was not in volume up to the preceding year, and prices mainly were much lower. The receipts aggregated 53,865 bags, compared with 69,007 in the previous year.

The receipts of lumber have fallen off, having been, approximately, 89,000,000 square feet, in comparison with 101,000,000 in the previous year. The business in cheese has fallen somewhat below the aggregate of the previous year, while butter and eggs have both exceeded the season of 1876-77. Butter has been more plenty than in many years, and eggs, for a long period, have not been either so abundant or so low as during a part of the past year. The business in feathers has been well maintained, the figures showing the receipts here to have been 12,006 sacks. The receipts of bran, middlings, etc., have been 11,052 tons, in comparison with 11,480 tons in the previous year, but there is compensation for this slight loss, found in larger quantities shipped directly from the interior, through the dealers here.

The production of leather in 1877-78 was not so large as in the preceding year, and yet the general business was well maintained under unfavorable circumstances, the receipts having been 28,371 bundles, compared with 28,188 in the preceding year, and the shipments 37,491, in comparison with 38,401. The business in hides during the year shows an increase, the receipts by public and private conveyances having aggregated, approximately, 10,000,000 pounds. The receipts of hay were somewhat below those of 1876-77, though not materially so, having been, approximately, 181,376 bales, compared with 186,688.

To the dry goods trade of this city there has been, in the main, a better complexion than at any time since the close of the war. The aggregate value was hardly equal to the previous year, and yet this was traceable to a lower range of prices, and not to a diminished volume of business, measured by packages and yards. The business in clothing was not so satisfactory as in 1876 77, though this was by no means traceable to any less capacity for business usefulness here—for the business

has never been more vigorously pushed. The aggregate sales at wholesale, for the year, were, approximately, \$10,915,000 compared with \$11,365,000 in 1876-77. The dry goods commission trade has been well maintained. No department of our business shows greater vigor or is more rapidly extending its commercial usefulness than that of boots and shoes. Sales during the early part of the year were not up to the previous year, but the fall trade goes far to compensate for any deficiency arising either from this or from lower prices. The business in wool was largely an unsatisfactory one to the dealers of the country, both the winter and summer bringing a decline in prices. Cincinnati, however, was generally a free seller, and the year brought to her a fair return. The aggregate receipts were 20,182 bales, compared with 19,531 in 1876-77. The paper business shows an increase, the manufactories in the district tributary to this city having produced, of all kinds of paper, 47,347,415 pounds in comparison with 42,977,068 pounds, with an aggregate value in 1877-78 of \$3,085,340, compared with \$3,089,021 in 1876-77. In hardware the year has been a trying one to our wholesale dealers, and aggregate sales have materially fallen off. The general stiffening of the market, however, of late, has done much to encourage our merchants in this line of goods.

The business in crockery has been well maintained, but it has been a period of extraordinarily low prices, which, under the pressure of English wares, seemed to have no limit to declension. In few other articles of merchandise has the shrinkage been so great. This has not been so favorable to domestic production, and yet our potters, with commendable enterprise, have indefatigably proceeded in their work of building up this industry, which has the larger distinction here, because of the luster which has been lent to it by the recent discovery of a process of underglazed decoration, promising brilliant results, by our talented and courageous townswoman, Miss M. Louise McLaughlin. The granite wares of this city are steadily improving in quality, and find sales each year in a wider territory. Our business in glassware, in volume, was about equal to the previous year. The production in fruit jars was materially increased, while the remainder of the line was well maintained, though at still lower prices than had previously ruled. The business in drugs, in volume, was about equal to the year preceding. Prices were lower, but there was a much improved feeling among the customers of the city, who manifested a disposition, toward the close, to buy much more liberally than for a considerable period.

The business in cooperage, mainly, was not unlike the previous year, save that there were reduced supplies of country cooperage. Prices were

low and margins narrow. The aggregate product of the city was probably below the previous year, but there was toward the close of the year a considerably improved feeling, predicated on light stocks and a larger inquiry. The year, to our ice men, was an eventful one. The open winter made it necessary to rely on old stocks, or to draw on remote points at advanced rates, which our dealers were compelled to do to fill their contracts and meet current wants. It was an opportune occasion for the introduction of ice made by scientific process, for which arrangements were completed during the year. Ice, so manufactured, toward the latter part of the season, was successfully produced in considerable quantities, and delivered to customers in the city at low prices.

In silver-ware and jewelry there was, especially toward the close of the year, a materially increased business. In some kinds of goods a still further decline was established. The business in school-books was fully equal in bulk to the previous year, though, owing to a decline in prices, it also fell somewhat below the preceding season in aggregate value. There was about the usual production of law and medical books. The business in miscellaneous books was well maintained. The market, however, was crowded with cheaper editions of standard works, in some degree to the detriment of aggregate sales.

Our business in silk and millinery goods, embracing here also the articles of cloaks and ladies' suits, made considerable progress during the year. In the latter articles particularly, during a part of the period, there was much activity. The year, in hats, caps, and furs, will, like some other departments, show a diminished aggregate value, with the usual bulk of goods at lower prices than the preceding year.

The trade in foreign fruits has exhibited considerable improvement during the year. The canning of fruits and vegetables, a comparatively new industry here, makes a larger exhibit than ever before. The business in dried fruits, too, shows a material increase over the preceding year, the receipts having been the largest in the history of the city, though the season was one of singularly low prices, and was unfavorable to dealers. The receipts of broom corn aggregated 1,403,960 pounds, having somewhat fallen off compared with 1876-77. The first direct shipments of corn from this city to Europe were made during the year. The largely diminished crop of peanuts in Tennessee, which mainly finds a market here, reduced the receipts at this city, which were 276,505 bushels, compared with 461,545 in the previous year. The business in hops, measured by the quantity of the commodity, was only once exceeded here, the receipts having been 8,666 bales, while the average price was only half that of the preceding year. The business in beans was

greatly below an average, the receipts, owing to the poor quality of the crop in this vicinity in 1877, having been the lightest in twenty-three years. The business in naval stores was only once exceeded, which was in 1876-77. The aggregate receipts in the past year were 40,911 barrels, compared with 44,619 in the previous year. Of this quantity, rosin contributed 31,395 barrels, compared with 30,125 in the year preceding.

From the tables which have been furnished by R. H. Stephenson, Esq., Collector of Customs at this port, it will be seen that our import business with foreign countries, under the provisions of the act of 1870, providing for direct importation, has materially increased. The aggregate invoice value of the imports made directly through this port, for the fiscal year ending June 30, 1878, was \$632,528, on which duties were imposed amounting to \$271,590.43, compared with \$465,912, and duties of \$179,170.21 in the previous year. The aggregate invoice value of merchandise imported and appraised at other ports, and transported to the port of Cincinnati, shows a heavy decrease, having been \$83,260, with duties amounting to \$33,451.29, in comparison with a value of \$183,581, and duties of \$62,877.91 in 1876-77. The total value of goods imported under both laws was \$715,788, with duties of \$305,041.72, compared with \$649,493, and duties of \$242,048.12 in the preceding year.

In the great department of manufactures, to which, in some particular cases, where they were specially allied to commerce, allusion has been previously made, and on which the foundations of our prosperity so largely rest, the past year, while not having been eventful, has been in the main encouraging. The further reduction in the value of raw products, and the increased economical tendencies in all the walks of life, have largely forbidden the anticipation of future demands, thus limiting production, as far as possible, as in the immediately preceding year, to actual wants. But there has been of late a steady improvement in the belief of manufacturers that we had already entered on a better condition of things, and there has been an animation in producing circles, that has not been seen before since the commencement of the tremendous shrinking process to which values, business, and personal expenditures of late years have been subjected. According to the valuable figures of J. F. Blackburn, Esq., the Secretary of the Board of Trade of Cincinnati, by whose faithful labors Cincinnati has, what no other great city in the country enjoys, satisfactory and detailed statements annually of the operation and results of her industries, and whose tables with reference to manufactures have been incorporated into this report, the actual production of our manufactories for the year ending January 1, 1878, reached \$135,123,768, in comparison with \$140,583,960 in the previous

year, showing a reduction of \$5,460,192, though, in view of lower prices, exhibiting no decrease in actual production. The largest aggregate in any previous corresponding period was in the year ending January 1, 1876, when it was \$146,431,354, while in the year ending January 1, 1873, it was \$143,486,675. In the light of the tremendous depreciation in values which has taken place since 1872, these figures exhibit remarkable and encouraging progress, for it must be remembered that every dollar now represents a much larger product than it did before the great reduction in values began.

Although the figures show that the business of the city has been encouragingly maintained, when measured by the only true standard, which is quantity, as indicated by packages, pounds, yards, etc., the aggregate values, on account of the material shrinkage in prices which prevailed during much of the year, falls decidedly below 1876-77. According to the tables, which appear elsewhere, the total approximate aggregate value of the receipts of merchandise, not embracing whisky for reasons to be explained hereafter, nor general merchandise which is less specific than the remainder of articles reported, was \$112,708,172, in comparison with \$125,017,277 in 1876-77, and the shipments \$107,714,846, compared with \$113,421,205. Including whisky, the receipts aggregated \$119,533,199, in comparison with \$143,851,036, but of this reduction, over \$10,000,000 are accounted for by reason of the dropping from the imports of all whisky which appears in the returns of the revenue offices for the county of Hamilton, a part of which was previously embraced, and so much of the Sixth Kentucky District (Covington, etc.) as legitimately belongs to this city. Whatever reasons may have existed in other years for the incorporation of this particular part of the whisky, the business absorption by the city of the districts adjacent, and the close relation which now largely exists between the distiller and rectifier, render it desirable that this product should now be placed on a plane with other industries in the matter of statistics, by embracing in the lists only such spirits among the receipts as are really produced beyond the legitimate business boundaries of the city. In the exports, in which whisky remains unchanged as to method of reporting, the figures show as near as possible the actual quantity which went out, both of our local production and that which is received here from other districts. The aggregate approximate value of all shipments, save general merchandise, was \$125,867,246, compared with \$132,731,596 in 1876-77. By embracing the figures as to general merchandise, which comprises such articles as have no separate place in our statistics, and which in the very nature of the case must be more largely approximative than in specific commodities,

the total approximate aggregate value of the imports is shown to have been \$223,237,157, in comparison with \$260,892,540 in the previous year, and the exports \$186,209,646, in comparison with \$191,486,831 in 1876-77.

Such are some of the main features of the year's work, as they are revealed by, or deduced from, the detailed review of individual commodities which follows this summary of our business. There is much in the survey to afford encouragement to the well-wishers of Cincinnati. The general aspects which the commercial and industrial interests of the city present are certainly favorable. The main departments of our business have been well maintained, while some of them have shown decided progress. Cincinnati, like other communities, has sustained losses, but her interests are not crippled. Her merchants and manufacturers, during the five years of gravitation to normal prices, have been moved by a desire to maintain their position and provide for their usefulness in the future, rather than to enlarge the scope of their business for the time being, and in doing so they have prepared themselves to enter upon the enjoyment of improved times, with capacity to fully use the advantages which will be presented. Our river interests were never in a more encouraging state for usefulness. Our railroads are in a better condition, and under good management. The completion, long delayed, of the Cincinnati Southern Railroad is near at hand, opening up to us opportunities of commercial and industrial expansion which will only be limited by the enterprise we may use to secure its enjoyment. On the natural line from the south and south-west to the east and north-east, and from the South Atlantic and Gulf ports to the north and north-west, this city promises, in the near future, to be on a great national thoroughfare, with capacity to make the most of the situation. These through, as well as local facilities, which the standard gauges supply and are to furnish, are being supplemented by the narrow gauge railways, which are bringing us each month into more intimate relations with the less remote districts. To these purely business features of this period are to be added those of an educational nature, which also have commercial aspects of large significance. The past year has been distinguished by a number of events having an immediate bearing on the cultivation of the people, and yet sustaining a close relation to the business interests of the city. The ladies of the Women's Art Museum Association of Cincinnati, in the rich and successful display made at their Loan Exhibition, which was held during the past summer, more completely than ever before prepared the way for a permanent institution, to ultimately strengthen and improve the whole industrial fabric. The year, too, brought the completion of the new Music Hall, which, for capacity and adaptation to the pur-

poses of a large assembly, has no equal in this country. Scarcely had the last strains of the great festival which celebrated its inauguration died away, when there arose a College of Music, with the famous master of this continent at its head, with a full corps of instructors, and with a promise of success which astonishes all. To say these things come from a cultivated taste and a liberal art patronage does not tell the whole story. These achievements, so far-reaching in their influence on the country as to make it impossible to measure their importance, are rendered possible because they are splendidly and resolutely supported by the merchants and manufacturers of this city, in whose culture, sagacity, and liberality are largely found the secret of the strides we are now making toward becoming an art center, with all the social, educational, and commercial advantages which such an attainment implies.

The aggregate value of the products of our manufacturing industry, the number of hands employed, the value of real estate occupied, the cash capital invested, and the number of establishments engaged at Cincinnati, for each year in which statistics have been compiled touching these particulars, will be found in the following table:

Years.	No. of establishments.	Cash capital invested.	Value of real estate occupied.	No. of hands employed.	Value of production.
Total for year ending Jan. 1, 1841..	•	•	•	9,040	\$16,366,443
“ “ “ 1851..	•	•	•	23,527	46,189,279
“ “ “ 1861..	•	•	•	30,268	46,995,062
“ “ “ 1870..	•	\$45,225,586	\$36,853,783	59,354	119,140,089
“ “ “ 1871..	•	51,673,741	37,124,119	59,827	127,459,021
“ “ “ 1872..	•	50,520,179	40,443,553	58,443	135,988,365
“ “ “ 1873..	3,971	55,265,129	45,164,954	58,508	143,486,675
“ “ “ 1874..	4,118	54,377,853	47,753,133	55,015	127,698,858
“ “ “ 1875..	4,469	63,149,085	52,151,680	60,999	144,207,371
“ “ “ 1876..	4,693	64,429,740	53,326,440	62,218	146,431,354
“ “ “ 1877..	5,003	61,883,787	51,550,936	60,723	140,583,960
“ “ “ 1878..	5,183	57,868,592	47,464,792	64,709	135,123,768

* Not reported.

The aggregate annual approximate value of the imports and exports, respectively, at Cincinnati, from 1854-55 to 1877-78 inclusive, appears in the following table:

Years.	Imports.	Exports.	Years.	Imports.	Exports.
1854-55.....	\$67,501,341	\$38,777,394	1866-67.....	\$335,961,233	\$192,929,317
1855-56.....	75,295,901	50,809,146	1867-68.....	280,063,948	144,262,133
1856-57.....	77,950,146	55,642,172	1868-69.....	283,927,903	163,084,358
1857-58.....	83,644,747	52,906,506	1869-70.....	312,978,665	193,517,690
1858-59.....	94,213,247	66,007,707	1870-71.....	283,796,219	179,848,427
1859-60.....	103,347,216	77,037,188	1871-72.....	317,646,608	200,607,040
1860-61.....	90,198,136	67,023,126	1872-73.....	326,023,054	213,320,768
1861-62.....	103,292,893	76,449,862	1873-74.....	331,777,055	221,536,852
1862-63.....	144,189,213	102,397,171	1874-75.....	311,072,639	201,404,023
1863-64.....	389,790,537	239,079,825	1875-76.....	294,214,245	190,186,929
1864-65.....	307,552,397	193,790,311	1876-77.....	260,892,540	191,486,831
1865-66.....	362,032,766	201,850,055	1877-78.....	223,237,157	186,209,646

THE MANUFACTURERS OF THE CITY OF CINCINNATI.—*Marcell.*

Table showing the cash capital invested, the value of real estate occupied, and the number of hands employed, in the various classes of manufactures in the City of Cincinnati and immediate vicinity, together with the aggregate value of the production, and the number of establishments engaged in each, for two years:

Class of manufactures.	Year ending January 1, 1878.						Year ending January 1st, 1877.					
	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.		
Agricultural implements	7	\$226,000	\$251,000	221	\$314,400	7	\$231,000	\$275,000	213	\$313,000		
Artificial limbs and trusses	4	15,400	17,000	16	27,900	4	17,000	18,000	20	37,400		
Awings and tents	11	14,800	21,900	36	37,500	10	14,300	23,000	35	35,200		
Baking powder	10	13,000	20,000	54	169,300	9	12,000	20,000	51	173,300		
Bellows and forges	3	53,000	41,000	39	45,000	2	48,000	38,100	34	36,000		
Bells	3	70,000	49,000	41	163,100	3	69,000	45,000	39	153,200		
Billiard tables (a)	1	75,000	45,000	65	180,000	1	75,000	50,000	65	182,000		
Blacksmithing	147	83,800	200,000	593	423,900	145	94,500	207,000	563	387,900		
Blinds (venetian)	3	2,500	3,500	8	3,850	3	2,500	3,500	8	3,850		
Boilers	6	780,000	65,000	85	151,700	6	73,000	169,000	93	165,750		
Book-binding and blank-books	38	160,000	441,000	519	642,700	35	208,000	515,000	590	765,800		
Book and newspaper publishing	91	1,837,000	1,792,000	1,731	3,583,700	83	2,145,000	2,380,000	1,692	3,887,000		
Boots and shoes	567	1,831,000	1,091,000	4,410	4,317,949	555	1,891,000	1,230,000	4,315	4,211,594		
Boxes, cigar	17	13,100	33,800	103	89,900	13	10,560	15,000	83	63,500		
" paper	13	34,000	57,000	164	128,700	11	29,800	60,000	141	117,800		
" wooden (packing)	10	207,000	191,000	141	273,300	9	250,000	188,000	135	281,500		
Brackets and hat racks	6	67,800	47,000	151	14,080	7	81,500	61,000	152	161,030		
Brass founding and finishing	22	321,000	208,700	268	431,613	22	309,000	337,000	254	419,509		
Bread, crackers, etc	269	331,000	491,000	1,500	2,072,080	260	398,000	549,000	1,475	2,123,580		

Brick.....	34	350,000	250,000	550	480,000	36	325,000	290,000	470	400,000
Bricklaying.....	31	175,000	.....	260	549,585	25	165,000	.....	225	491,837
Britannia ware.....	1	20,000	10,000	35	50,000	1	21,000	17,000	25	50,000
Brooms.....	9	12,300	16,000	39	29,700	10	14,100	22,000	39	41,800
Brushes and wire goods.....	17	96,550	113,700	248	234,200	18	115,700	155,000	183	293,350
Building materials (exclusive of brick and stone).....	25	933,000	1,123,000	1,029	1,617,600	21	935,000	1,187,900	971	1,471,700
Bunga.....	3	25,698	49,600	17	49,931	3	35,500	53,000	23	62,271
Burial cases and hearses.....	7	343,000	260,000	339	623,800	7	397,000	290,000	359	698,700
Candles, soaps, and oils.....	33	1,855,090	1,513,500	1,021	7,895,030	31	2,471,092	1,315,000	1,083	9,519,400
Candy and other confections.....	19	258,500	216,000	295	846,713	19	320,000	260,000	340	871,367
Canned goods.....	4	104,000	51,000	640	403,000	3	130,000	53,000	920	305,000
Carpentering.....	176	200,000	240,000	1,032	1,522,614	163	198,000	227,000	803	1,103,193
Carpets.....	23	21,800	49,300	88	76,300	27	32,900	62,700	91	74,360
Carriages and buggies.....	58	61,700	523,500	1,207	1,468,051	47	670,300	526,500	928	1,122,223
Carriage and wagon materials.....	6	257,000	162,000	224	343,480	5	337,000	164,000	167	304,314
Cement, lime and plaster.....	6	29,700	23,900	65	44,700	6	25,370	21,000	57	39,900
Cement felting (c).....	1	5,400	3,000	6	10,000	1	5,000	3,000	6	10,000
Chair backs and frames.....	7	37,250	37,000	99	111,135	6	44,500	38,500	81	103,574
Charcoal, fuel.....	9	12,000	.....	47	26,800	8	12,000	.....	41	24,700
“ ground.....	3	9,700	12,800	13	37,200	3	11,000	14,000	13	34,000
Chewing gum.....	1	500	3,000	8	20,000	1	500	3,000	8	20,000
Children's carriages, hobby horses, etc.....	3	35,800	31,000	69	84,000	3	34,000	31,000	57	74,000
Cloaks, mantillas, dress trimmings, etc.....	16	190,000	235,000	1,255	647,830	16	185,000	227,000	777	577,410
Clothing and gent's furnishing goods.....	411	4,145,140	3,819,000	13831	10,131,300	440	4,367,000	4,110,000	12540	10,224,810
Coffins.....	10	50,000	21,200	39	31,700	10	21,200	24,000	39	36,300
Coke.....	5	24,400	115,000	33	103,900	5	25,000	130,000	33	110,800
Coloring (dyeing, etc).....	53	96,200	95,000	214	173,800	25	21,000	75,000	94	89,400
Cooperage.....	81	243,300	218,500	632	628,000	78	188,300	145,700	460	477,570
Copper ware.....	7	15,900	41,000	32	91,870	7	17,850	45,000	32	95,940
Cordage.....	13	168,700	80,000	200	312,700	13	181,000	85,000	220	343,200
Cotton goods.....	4	233,000	353,000	312	516,000	5	255,000	344,000	259	543,275
Curled hair and bristles.....	7	160,717	70,500	201	277,692	7	144,650	73,000	190	292,518
Cutlery and edge tools.....	9	43,600	47,000	33	98,400	9	55,000	53,000	35	107,300
Dental work.....	30	30,000	40,300	75	107,300	29	30,300	45,700	73	94,700
Drain pipe.....	4	15,400	23,000	35	49,400	4	13,500	30,000	27	44,300
Drugs, chemicals and glycerine.....	21	917,000	500,000	268	2,181,500	21	800,000	520,000	257	2,133,700
Earthenware and queensware.....	9	169,000	177,000	296	257,500	9	241,000	173,000	313	297,800
Enameled iron ware and iron show cards.....	3	40,000	39,000	80	155,000	2	46,000	39,000	89	202,560
Engraving, glass.....	2	3,700	4,900	5	11,000	1	8,110	2,400	2	1,000
“ metal.....	10	8,300	15,000	27	19,340	10	8,110	15,000	25	21,030
“ wood.....	12	9,900	14,400	47	40,800	13	11,500	17,000	45	37,780

THE MANUFACTURES OF THE CITY OF CINCINNATI—Continued.

Class of manufactures.	Year ending January 1, 1878.					Year ending January 1, 1877.				
	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.
Excelsior	2	\$12,000	\$19,000	24	\$21,300	2	\$12,000	\$19,000	24	\$30,500
Fertilizers	4	182,000	54,000	121	297,000	3	165,000	50,000	102	238,000
Fine	4	12,500	20,300	34	45,000	4	12,449	23,500	31	40,200
Fire alarm telegraph, etc	3	7,500	5,200	13	15,700	1	6,000	4,000	6	10,000
Fire arms	6	4,800	3,700	14	9,000	4	4,000	3,000	12	7,500
Fire brick, tile, clay, etc	5	40,500	40,000	40	51,700	5	45,700	40,000	40	53,200
Fire works and explosives (a)	1	30,000	15,000	60	50,000	1	40,000	16,500	121	103,000
Fire wood and kindling	4	3,300	4,500	24	16,000	4	4,100	4,500	17	15,200
Flag and banner	2	14,000	10,000	27	45,000	2	16,000	11,000	35	60,000
Flour and meal (h)	8	200,000	160,000	55	387,375	9	211,000	180,000	59	389,201
Flowers and floral work (c)	22	130,000	455,000	83	217,500	22	130,000	455,000	83	217,000
Foundry facings	3	2,100	35,700	19	26,500	4	27,000	41,800	19	32,200
Frames and moldings	10	405,000	232,400	409	612,000	11	335,000	378,000	486	587,000
Furniture	139	3,084,750	3,382,600	3,852	6,888,134	125	3,171,000	3,970,600	3,535	6,816,423
Furs and gloves	7	66,000	60,000	85	158,400	7	62,400	60,000	76	153,700
Galvanized and sheet-iron work	13	184,500	168,000	191	549,300	11	154,000	170,000	171	531,700
Gas	1	4,250,000	1,500,000	400	1,100,000	3	4,000,000	2,000,000	310	1,245,500
Gas meters and machinery	3	60,000	63,000	37	111,000	3	60,000	63,000	37	111,000
Glassware (a)	1	200,000	110,000	220	200,000	1	200,000	110,000	220	200,000
Glass, stained and ground	6	11,200	13,300	24	28,360	5	10,700	13,000	19	27,873
Glue	6	151,000	70,700	66	231,000	5	183,000	70,000	63	247,300
Gold foil	3	19,900	13,200	47	68,400	2	17,500	10,000	40	66,240
Gold pens, pencil cases, etc	1	56,000	25,000	35	50,000	1	40,000	30,000	35	60,000

Grease and tallow.....	7	94,000	53,000	50	398,900	8	127,300	65,000	53	444,700
Hardware.....	5	255,000	190,000	322	490,000	5	270,000	225,000	299	419,000
Harness and saddlery.....	61	288,000	305,000	296	573,800	55	277,700	320,000	288	548,992
Hats and caps.....	13	23,000	40,000	193	127,380	14	27,500	41,000	94	113,530
Hoop skirts and corsets.....	5	7,000	16,000	14	12,800	4	7,500	20,000	11	13,700
Horse collars and harness.....	4	31,000	21,000	49	58,700	4	31,000	24,000	61	72,500
Hosiery.....	10	43,500	34,000	208	133,232	9	41,700	33,470	183	123,330
Ice (a).....	6	200,000	600,000	200	500,000	5	215,000	575,000	200	485,000
Ink and blacking.....	7	33,000	40,000	43	124,800	7	35,100	40,000	43	133,000
Instruments, astronomical, engineering, etc.....	8	40,800	50,000	40	53,700	9	41,700	55,000	43	58,800
" " musical.....	9	11,600	21,000	27	22,200	10	15,700	32,000	32	36,300
Iron, bolts and nuts.....	5	111,000	114,000	171	220,000	5	125,000	118,000	163	238,700
" " castings, not otherwise specified.....	14	431,000	467,000	500	978,231	15	525,000	550,000	470	1,011,444
" " forged and rolled, exclusive of blacksmithing.....	7	983,000	980,000	691	1,827,657	9	1,079,000	1,100,000	663	1,758,603
" " pig (i).....					264,000					75,000
" " wrought (railing, jail work, etc.).....	8	160,000	202,500	197	217,384	8	165,000	220,000	189	201,697
Jewelry and silverware.....	11	321,200	209,000	327	673,000	11	339,800	227,000	251	662,000
Lard (b).....					2,712,216					3,707,796
Lead (c).....	1	2,500	3,500	8	7,970	1	2,500	3,500	8	7,970
Lead, sheet and pipe.....	2	120,000	40,000	19	450,000	2	90,000	40,000	15	335,000
Leather.....	43	1,131,050	860,200	594	1,850,090	44	1,263,500	947,100	617	2,317,580
Leather belting and hose.....	5	70,000	60,000	39	310,000	5	69,200	65,000	39	313,000
Lightning rods.....	2	4,000	7,000	9	8,500	2	6,300	8,500	11	13,500
Liquors, distilled (d).....	10	2,200,000	650,000	330	8,012,602	10	2,300,000	650,000	327	8,155,128
" " malt (e).....	27	3,000,000	3,350,000	938	5,139,585	27	3,000,000	3,350,000	871	5,075,676
" " rectified (f).....	73	2,230,000	700,000	500	9,642,124	71	2,680,000	711,000	497	9,317,784
" " wine (a).....					250,000					300,000
Lithographing.....	9	210,000	141,000	180	297,900	9	220,000	135,000	169	269,900
Locks and locksmithing.....	20	84,250	85,000	94	87,196	16	77,300	75,000	77	74,730
Machinery, including steam gauges.....	43	1,137,000	1,488,000	1,133	1,997,231	42	1,165,000	1,838,000	1,082	2,078,775
Malt, exclusive of that manufactured by brewers.....	14	228,400	458,000	73	573,400	14	318,000	432,000	77	737,000
Malt kilns.....	4	19,000	40,000	22	35,000	3	18,500	40,000	19	33,000
Mantels and grates.....	6	180,123	183,000	161	285,010	6	200,393	218,000	174	317,570
Maps (c).....	1	3,000	6,000	5	3,500	1	3,000	6,000	5	3,500
" " Mattison " flour packer (see machinery).....										15,000
Mattresses and bedding.....	17	58,400	87,000	83	178,000	18	66,670	80,000	10	15,000
Millinery.....	558	378,000	450,000	1,343	825,600	558	343,000	463,000	85	189,790
Mill stones and portable mills.....	5	275,000	215,000	220	438,000	5	278,000	214,000	218	817,500
Mineral water.....	18	169,000	219,000	191	423,338	19	150,000	198,000	170	451,000
Neck ties.....	4	4,700	10,000	18	9,100	3	4,500	7,000	15	407,600
										8,700

THE MANUFACTURES OF THE CITY OF CINCINNATI—Continued.

Class of manufactures.	Year ending January 1, 1878.					Year ending January 1, 1877.				
	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.
Ornamental plaster	3	\$2,500	\$5,500	14	\$9,200	4	\$2,500	\$5,100	13	\$7,370
Paper, printing, wrapping, etc	6	531,000	520,000	475	969,302	6	655,000	530,000	470	1,037,000
" bays and flour sacks	6	126,000	120,000	151	549,302	6	142,000	130,000	169	540,257
" collars	2	12,000	15,000	13	19,000	2	12,000	15,000	13	20,700
" hangings	33	120,000	234,000	168	434,900	31	128,000	220,000	144	417,855
Painting, fresco	6	10,000	10,000	31	23,780	7	8,500	10,000	24	20,834
" house and signs	124	89,200	101,300	343	563,931	110	65,700	71,500	271	325,056
Patent medicines (c)	8	197,900	113,000	71	373,348	8	199,700	113,000	71	373,348
Patterns and models	21	29,200	54,000	56	56,300	20	31,000	46,000	48	53,700
Photographs	30	21,100	89,375	81	151,100	34	29,300	109,666	93	187,310
Plastering	31	50,000	.....	225	334,940	25	45,000	13,000	207	242,528
Playing cards (a)	1	10,000	12,000	20	24,000	1	10,000	12,000	18	25,000
Pocket books	2	2,750	6,000	5	7,400	2	2,750	7,000	6	9,100
Printing, job	77	560,100	637,000	779	1,373,726	63	687,500	633,000	797	1,530,649
Provisions	116	5,600,500	3,530,000	1,250	14,897,228	120	7,000,000	3,800,000	1,300	18,093,659
Pumps and plumbing	69	333,760	282,000	341	488,000	64	291,400	300,000	327	493,000
Railway materials and supplies	7	430,000	460,000	331	868,155	7	500,000	450,000	420	1,000,150

Ranges and warm air furnaces.....	8	152,000	125,000	153	351,000	8	133,000	129,000	131	328,900
Refrigerators, ice boxes, etc.....	3	23,000	35,000	22	39,000	3	23,900	27,000	20	41,000
Regalia and costumes.....	5	30,000	23,000	40	53,700	5	28,000	23,000	41	54,170
Roofing materials.....	11	135,000	100,000	138	230,548	11	117,000	95,000	113	202,550
Rubber moldings and stamps.....	6	5,370	10,000	11	7,860	3	4,240	8,300	8	5,960
Saddle-trees.....	2	23,500	23,500	40	45,300	2	27,500	23,500	42	53,800
Safes.....	5	1,000,000	428,000	970	1,915,000	5	1,020,000	468,000	845	1,730,000
Saws.....	5	92,034	97,517	46	74,885	5	107,743	113,000	47	71,722
Scales and trucks.....	4	35,600	37,000	34	65,000	4	35,600	43,000	34	62,700
Seal presses and canceling stamps.....	5	8,400	19,000	22	22,800	5	16,700	16,700	21	21,130
Sealing wax.....	3	7,000	14,000	27	23,000	2	6,000	13,000	25	20,000
Sewing machine outfits (o).....	5	120,000	61,400	94	158,400	5	121,300	61,400	94	158,420
Shipping tags.....	1	3,500	3,000	4	7,500	2	4,100	11,000	6	8,700
Show cases.....	4	33,000	41,600	47	76,630	5	42,000	49,000	47	91,700
Silver plated ware.....	7	42,700	81,000	63	79,707	9	47,300	48,000	61	87,475
Spices, mustard, etc.....	8	153,000	116,000	93	388,920	9	138,225	93,000	88	367,684
Stair building.....	10	44,200	40,000	98	126,100	10	41,700	43,000	81	98,330
Starch.....	2	600,000	362,000	153	835,000	2	275,000	350,000	170	815,000
Steamboats and barges.....	3	150,000	170,000	120	311,000	3	183,000	170,000	123	294,800
Steam ganges (see machinery).....	12	55,000	47,000	41	89,850	13	52,760	51,700	36	77,380
Steam heating apparatus.....	9									
Stencils, dies, and checks.....	41	18,500	45,000	48	51,000	9	20,700	45,000	48	53,270
Stone and marble work.....	9	732,210	601,000	731	1,407,700	37	815,600	730,000	717	1,218,500
Stoves and hollow-ware.....	2	932,000	645,000	1,111	1,358,500	11	1,087,000	851,000	1,235	1,431,500
Stove polish (a).....		2,700	3,000	4	4,100		2,700	2,000	4	4,100
Tallow (see grease).....	64	184,800	281,800	430	678,710	65	198,435	323,000	428	703,270
Tin-ware.....	493	820,000	900,000	2,500	2,159,722	430	725,000	740,000	2,230	1,955,390
Tobacco, cigars (g).....		900,000	540,000	900	2,056,002	23	1,000,000	650,000	790	2,155,528
" fine cut, plug and snuff (j).....						14			190	5-6,674
" smoking (j).....										
Trunks and valises.....	14	103,000	256,500	130	188,800	15	117,500	275,000	123	203,252
Type and printing materials.....	5	290,000	220,000	384	490,000	5	290,000	220,000	337	391,197
Umbrellas and parasols.....	5	4,700	8,500	14	11,400	8	8,300	13,000	25	24,200
Varnishes and japans (a).....	6	160,000	70,000	35	210,000	6	160,000	70,300	35	210,000
Veneers.....	2	105,000	65,000	66	196,000	2	90,000	80,000	46	185,000
Vermicelli, macaroni, and chocolate.....	15	2,500	2,300	7	8,750	2	2,500	2,300	7	8,750
Vinegar and cider.....	2	135,100	150,000	55	565,000	14	137,500	157,500	51	518,500
Wagons, carts, etc.....	48	162,000	258,000	358	458,500	45	133,000	275,000	313	439,200
White lead, colors, paints, and putty.....	9	836,000	326,500	207	1,236,000	10	1,134,000	412,000	295	1,428,000
Wigs and hair goods.....	21	39,900	85,000	113	103,500	22	38,000	91,000	111	119,100
Wool ware.....	11	5,800	8,200	21	11,000	16	8,700	17,500	33	23,200
Window shades.....	4	9,000	16,000	22	16,700	5	9,700	20,000	25	17,500

THE MANUFACTURES OF THE CITY OF CINCINNATI—Continued.

Class of manufactures.	Year ending January 1, 1878.					Year ending January 1, 1877.				
	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.	No. of establishments.	Cash capital invested.	Value of real estate occupied.	Number of hands employed.	Value of production.
Woolen and worsted goods	2	\$163,000	\$135,000	157	\$276,000	3	\$198,000	\$128,000	168	\$263,000
Wooden ware	16	200,000	210,000	337	555,900	14	209,000	253,000	312	569,000
Wood turning	18	25,000	43,000	57	77,800	17	22,200	40,000	55	79,900
Wringing machines	1	75,000	30,000	40	120,000	1	75,000	30,000	25	90,000
Totals	5,183	\$57,808,592	\$47,464,792	64,709	\$135,123,768	5,003	\$61,883,787	\$51,550,336	60,723	\$140,563,960

a. Estimated.

b. 25,830,634 lbs., 1877. Capital, hands, etc., included with "provisions."

c. Previous years' figures.

d. 8,434,318 gallons, 1877.

e. 16,341,245 gallons, 1877. Hands, product, etc., of bottling establishments included.

f. 9,182,975 gallons, 1877.

g. 86,300,400 cigars, 1,264,000 cigarettes, 1877.

h. 73,883 barrels, 1877.

i. 12,000 tons, 1877.

j. Number of establishments manufacturing plug tobacco, 2; fine-cut and smoking, 15; smoking, 6; snuff, 6. Quantity produced: plug, 83,102¹/₂ pounds; fine-cut and smoking, 4,093,411¹/₂ pounds; snuff, 14,302 pounds.

PAPER.

Table showing the production of the mills tributary to the city, for the year ending June 30, 1878, according to returns made to the Superintendent of the Merchants' Exchange. The list embraces the mills of twenty-nine firms or companies. Complete returns have been received from nearly the whole list, and careful estimates have been made where reports have not been furnished.*

Kinds.	1877-78.		1876-77.	
	Pounds.	Value.	Pounds.	Value.
Book	11,855,330	\$1,147,909	7,177,588	\$871,833
Manilla	9,663,257	692,257	9,443,722	769,023
News	8,903,453	621,422	9,919,282	716,196
Roofing	5,894,030	169,224	5,100,578	155,511
Wrapping	9,568,145	224,893	9,823,066	287,433
Writing	1,433,200	229,635	1,512,832	289,020
Totals	47,347,415	\$3,085,340	42,977,068	\$3,089,021

Kinds.	1875-1876.		1874-75.	
	Pounds.	Value.	Pounds.	Value.
Book	7,753,744	\$872,058	7,289,506	\$840,461
Manilla	8,796,918	704,800	7,032,664	616,587
News	8,210,703	743,167	9,208,669	845,935
Roofing	7,986,777	237,890	8,158,852	242,808
Wrapping	8,004,786	244,755	8,231,574	263,692
Writing	2,145,338	429,067	2,145,072	429,014
Totals	42,898,271	\$3,231,737	42,126,337	\$3,233,497

PORK PACKING IN OHIO.

Table showing, for the two past winter seasons, the number of hogs packed at the following places in Ohio that packed, in either season, 5,000 hogs and over. The blanks indicate either that the number was under 5,000, or that none were packed. The figures for both seasons are those of the Cincinnati Price Current.*

	1877-78.	1876-77.		1877-78.	1876-77.
✓ Chillicothe	8,415	.....	✓ Piqua .....	.....	5,000
✓ Circleville	18,554	15,942	✓ Ripley	5,000	5,560
✓ Cleveland	107,762	121,202	✓ Sidney	6,000	.....
✓ Cincinnati	632,302	523,576	✓ Toledo	19,728	12,369
✓ Dayton	9,000	5,000	✓ Washington C. H. ...	19,950	15,000
✓ Hamilton	6,000	.....	✓ Wilmington	5,000	7,000
✓ Kenton	5,000	5,300	✓ Xenia	19,792	16,000
✓ Lima	7,750	7,062	✓ All other points	50,129	55,933
✓ Minster	6,000	6,700			
✓ New Bremen	7,750	7,125	Totals	934,132	813,709
✓ New Vienna .....	.....	5,500			

* Maxwell.

Table showing the total number of hogs cut at Cincinnati, each winter packing season, in forty-six years.*

Years.	Nos.	Years.	Nos.	Years.	Nos.	Years.	Nos.
1832-33	85,000	1844-45 ...	196,000	1856-57 ...	344,512	1867-68 ...	366,831
1833-34	123,000	1845-46 ...	205,000	1857-58 ...	446,677	1868-69 ...	365,555
1834-35	162,000	1846-47 ...	250,000	1858-59 ...	382,826	1869-70 ...	337,330
1835-36	123,000	1847-48 ...	475,000	1859-60 ...	434,499	1870-71 ...	481,568
1836-37	103,000	1848-49 ...	410,000	1860-61 ...	433,799	1871-72 ...	530,301
1837-38	182,000	1849-50 ...	393,000	1861-62 ...	474,467	1872-73 ...	626,305
1838-39	90,000	1850-51 ...	334,000	1862-63 ...	608,457	1873-74 ...	581,253
1839-40	95,000	1851-52 ...	352,000	1863-64 ...	370,623	1874-75 ...	560,164
1840-41	160,000	1852-53 ...	361,000	1864-65 ...	350,000	1875-76 ...	563,359
1841-42	220,000	1853-54 ...	421,000	1865-66 ...	354,079	1876-77 ...	523,576
1842-43	250,000	1854-55 ...	355,786	1866-67 ...	462,610	1877-78 ...	632,302
1843-44	240,000	1855-56 ...	405,396				

Table showing the aggregate annual receipts and shipments of the hog product, at Cincinnati, during ten pork years, each year ending October 31.*

Years.	Imports.			
	Hogs, head.	Pork, bbls.	Lard, lbs.	Meats, lbs.
1868-69	449,884	15,468	15,451,425	21,054,269
1869-70	486,487	14,102	8,647,430	24,791,596
1870-71	724,069	14,565	14,954,820	34,693,854
1871-72	996,216	31,277	14,675,970	41,340,576
1872-73	1,125,380	9,284	17,589,825	45,337,236
1873-74	1,113,331	7,279	16,921,080	35,963,598
1874-75	911,478	9,650	12,151,500	26,493,613
1875-76	882,618	5,924	13,680,811	25,789,708
1876-77	950,091	4,086	8,649,842	20,275,625
1877-78	1,069,146	3,189	9,435,791	18,617,937

Years.	Exports.			
	Hogs, head.	Pork, bbls.	Lard, lbs.	Meats, lbs.
1868-69	76,939	71,055	36,253,380	66,309,106
1869-70	38,649	71,858	22,922,880	68,783,744
1870-71	87,463	69,547	40,614,090	95,843,823
1871-72	170,124	109,279	43,307,010	120,847,895
1872-73	267,399	47,494	45,279,630	136,765,300
1873-74	396,803	46,357	40,936,125	124,342,241
1874-75	150,428	55,268	34,767,334	98,129,018
1875-76	185,621	54,892	34,927,861	97,649,782
1876-77	247,005	59,373	33,907,783	90,707,938
1877-78	231,929	67,611	43,658,859	93,447,945

* Maxwell.

COMPARATIVE TABLE BY STATES.

The following table exhibits, by States, for the seasons of 1877-78 and 1876-77, respectively, the number of hogs packed between November 1st and March 1st, the average gross and net weight, average yield per head of lard of all kinds, total product of lard, the average prices paid per hundred pounds gross and net, the aggregate cost, together with the grand aggregates and general averages of the west, in a period of eight years. The table has been prepared from the reports of the Cincinnati Price Current for 1877-78 and 1876-77, and from the reports of the Superintendent of the Cincinnati Merchants' Exchange for previous years, the gross averages for the past two years having been reached by the usual allowance of twenty per cent, as the difference between the gross and net averages.—*Mazell.*

States.	No. of hogs.		Weight.		Lard.		Price.			
	1877-78.	1876-77.	Average gross weight.		Average yield per head of all kinds of lard.	Total product of lard, lbs.	Average price per 100 lbs., gross.		Average price per 100 lbs., net.	
			1877-78.	1876-77.			1877-78.	1876-77.	1877-78.	1876-77.
Ohio	924,132	813,709	279.81	272.68	36.49	36,431,015	\$4.12	\$5.76.	\$5.15	\$7.20
Illinois	2,714,748	1,905,219	296.96	272.61	35.19	107,863,411	4.09	5.93 6	5.10	7.02
Indiana	496,025	530,266	297.9	249.26	33.71	17,074,364	3.58	5.43 6	5.10	7.02
Iowa	466,880	419,472	275.60	259.68	34.42	13,741,419	3.58	5.43 6	5.10	7.02
Kansas	198,305	224,253	274.25	270.15	37.16	7,750,245	4.39	5.98 8	4.36	6.61
Kentucky	218,305	255,968	271.78	271.78	33.16	7,750,245	4.39	5.98 8	4.36	6.61
Michigan	139,095	148,658	293.60	290.41	36.94	11,041,100	4.39	5.98 8	4.36	6.61
Minnesota	93,700	84,235	336.37	319.42	39.93	4,436,078	3.86	5.53 6	4.83	6.92
Missouri	801,614	641,699	274.67	267.41	44.11	1,045,500	3.54	5.19 2	4.42	6.49
Nebraska	56,900	46,190	290.35	275.48	39.12	31,478,400	3.60	5.64	4.82	7.05
Nevada	66,497	50,770	290.41	290.41	38.1	2,672,000	3.52	5.43 4	4.40	6.78
Tennessee	419,614	566,861	295.64	295.64	30.73	16,148,375	3.86	5.68 8	5.03	6.74
W. Virginia	13,000	10,947	299.16	299.16	30.73	8,201,740	4.25	5.72 8	4.83	7.11
Pittsburg, Pa.	3,000	2,500	299.16	299.16	30.73	8,201,740	4.25	5.72 8	4.83	7.11
Atlanta, Ga.	6,505,446	5,101,306	292.55	292.55	38.61	251,193,500	\$3.99 2	\$5.74 06	\$4.99	\$7.18
Totals	6,505,446	5,101,306	292.55	292.55	38.61	251,193,500	\$3.99 2	\$5.74 06	\$4.99	\$7.18
Grand Totals	6,505,446	5,101,306	292.55	292.55	38.61	251,193,500	\$3.99 2	\$5.74 06	\$4.99	\$7.18
1877-78	6,505,446	5,101,306	292.55	292.55	38.61	251,193,500	\$3.99 2	\$5.74 06	\$4.99	\$7.18
1876-77	5,101,306	4,800,192	292.61	272.61	34.04	174,803,333	5.74 06	6.62 56	7.18	8.62 56
1875-76	5,337,124	4,800,192	292.61	272.61	34.04	174,803,333	5.74 06	6.62 56	7.18	8.62 56
1874-75	5,337,124	4,800,192	292.61	272.61	34.04	174,803,333	5.74 06	6.62 56	7.18	8.62 56
1873-74	5,337,124	4,800,192	292.61	272.61	34.04	174,803,333	5.74 06	6.62 56	7.18	8.62 56
1872-73	5,337,124	4,800,192	292.61	272.61	34.04	174,803,333	5.74 06	6.62 56	7.18	8.62 56
1871-72	5,337,124	4,800,192	292.61	272.61	34.04	174,803,333	5.74 06	6.62 56	7.18	8.62 56
1870-71	5,337,124	4,800,192	292.61	272.61	34.04	174,803,333	5.74 06	6.62 56	7.18	8.62 56

COMPARATIVE TABLES, SHOWING THE AVERAGE ANNUAL QUOTATIONS FOR WHEAT, CORN, OATS, HAY, FLOUR, ETC., ETC., FOR A SERIES OF YEARS.*

Table showing the average annual price of No. 1 red winter wheat, for seventeen years; of No. 2 in 1872-73 and 1873-74, and of the whole range, by sample, from 1874-75 to 1877-78, inclusive:

1855-56 \$1 27	1861-62.....\$0 86	1867-68.....\$2 31.25	1873-74, No. 2.\$1 37.9
1856-57 1 18	1862-63..... 1 04	1868-69..... 1 57	1874-75..... 1 16.6
1857-58 77	1863-64..... 1 41.5	1869-70..... 1 14.83	1875-76..... 1 10.17
1858-59 1 15	1864-65..... 1 78.5	1870-71..... 1 27.37	1876-77..... 1 41.34
1859-60 1 17	1865-66..... 2 27	1871-72..... 1 57.7	1877-78..... 1 11.2
1860-61 93	1866-67..... 2 29	1872-73, No. 2 1 56.3	

Table showing the average annual quotations for prime mixed ear corn, at Cincinnati, for twenty-three years:

1855-56.... \$0 42	1861-62.... \$0 31	1867-68..... \$0 92.2	1873-74..... \$0 60.05
1856-57.... 59	1862-63..... 53.4	1868-69..... 73½	1874-75..... 72 52
1857-58.... 42	1863-64..... 1 03½	1869-70..... 83½	1875-76..... 51.62
1858-59.... 72	1864-65..... 77½	1870-71..... 56	1876-77..... 46
1859-60.... 50	1865-66..... 54½	1871-72..... 49	1877-78..... 42.53
1860-61.... 34	1866-67..... 79½	1872-73..... 42.6	

Table showing the average annual quotations for No. 1 mixed oats, at Cincinnati, from 1855-56 to 1871-72, inclusive, and for No. 2 mixed from 1872-73 to 1877-78, inclusive:

1855-56..... 29½c	1861-62..... 30c	1867-68..... 60½c	1873-74, No. 2.... 42.2c
1856-57.... 46	1862-63..... 58½	1868-69..... 63½	1874-75, No. 2.... 59
1857-58.... 36	1863-64..... 78½	1869-70..... 54½	1875-76, No. 2.... 38
1858-59.... 57	1864-65..... 52½	1870-71..... 46	1876-77, No. 2.... 37.82
1859-60.... 43	1865-66..... 42	1871-72..... 37	1877-78, No. 2.... 28.66
1860-61.... 26½	1866-67..... 57	1872-73, No. 2.... 36.1	

Table showing the average prices of prime timothy hay, at Cincinnati, loose pressed, per ton, for twenty-three years:

1855-56... \$14 71	1861-62..... \$11 85	1867-68..... \$14 80	1873-74.... \$17 16.3
1856-57... 21 00	1862-63..... 16 34	1868-69..... 16 42	1874-75..... 20 98.1
1857-58... 13 46	1863-64..... 27 16	1869-70..... 17 43.7	1875-76..... 17 66.6
1858-59... 15 38	1864-65..... 26 00	1870-71..... 18 45	1876-77..... 11 67
1859-60... 17 73	1865-66..... 12 63	1871-72..... 20 78.8	1877-78..... 9 86
1860-61... 12 62	1866-67..... 19 76.5	1872-73..... 22 18.3	

Table showing the average annual prices of "superfine" flour for twenty-two years:

1856-57.... \$5 77	1862-63..... \$5 03	1868-69..... \$5 08.5	1873-74..... \$5 06.2
1857-58.... 4 00	1863-64..... 6 39	1869-70..... 4 62	1874-75..... 4 41.7
1858-59.... 5 33	1864-65..... 7 67	1870-71..... 5 00	1875-76..... 3 90
1859-60.... 4 60	1865-66..... 7 32	1871-72..... 6 06	1876-77..... 5 47
1860-61.... 4 45	1866-67..... 9 45	1872-73..... 5 56.5	1877-78..... 3 90.9
1861-62.... 4 08	1867-68..... 9 18		

* Maxwell.

Table showing the average annual quotations of prime beef cattle, per cental gross, at Cincinnati, from 1855-56 to 1872-73, and on fair to medium cattle, from 1873-74 to 1877-78, inclusive:

1855-56.... \$7 73	1861-62..... \$3 24	1867-68.... \$7 27	1873-74..... \$3 90
1856-57.... 4 57	1862-63..... 3 96	1868-69..... 5 62.5	1874-75..... 4 30 7
1857-58.... 3 78	1863-64..... 5 73	1869-70..... 5 85	1875-76..... 3 95.6
1858-59.... 4 88	1864-65..... 7 45	1870-71..... 5 05.2	1876-77..... 3 50.8
1859-60.... 3 90	1865-66..... 7 55	1871-72..... 4 73.5	1877-78..... 3 03.6
1860-61.... 3 30	1866-67..... 7 27.5	1872-73.... 4 99 15	

Table showing the average annual quotations for prime New Orleans sugar, at Cincinnati, from 1855-56 to 1861-62, and for the years 1872-73 to 1877-78, inclusive, and for Porto Rico, from 1862-63 to 1871-72, inclusive:

1855-56..... 8.6c	1861-62..... 9.6c	1867-68..... 14c	1873-74..... 9 77c
1856-57..... 11.16	1862-63..... 12.2	1868-69..... 13.87	1874-75..... 9 06
1857-58..... 8 25	1863-64..... 18	1869-70..... 13	1875-76..... 8.9
1858-59..... 6.07	1864-65..... 20	1870-71..... 11.38	1876-77..... 10
1859-60..... 8	1865-66..... 16 12	1871-72..... 10.5	1877-78..... 8.4
1860-61..... 6.8	1866-67..... 14.75	1872-73..... 10.6	

Table showing the average annual quotations at Cincinnati, for prime New Orleans molasses, per gallon, for twenty-three years:

1855-56....\$0 44	1861-62....\$0 44	1867-68....\$0 95	1873-74.... \$0 70.14
1856-57.... 67 3-5	1862-63.... 57 5-6	1868-69.... 80½	1874-75.... 67.33
1857-58.... 36 4-5	1863-64.... 84½	1869-70.... 80 1-7	1875-76.... 57.46
1858-59.... 37 4-5	1864-65.... 1 35½	1870-71.... 6-½	1876-77.... 55.48
1859-60.... 43	1865-66.... 99	1871-72.... 61.9	1877-78.... 45.13
1860-61.... 33½	1866-67.... 81	1872-73.... 72.22	

Table showing the comparative prices of all grades of coffee at Cincinnati, at the close of August, in five years:

Grades.	1874.	1875.	1876.	1877.	1878.
Rio, common, per pound ..	21½ a 22c	21½ a 22c	18½ a 19c	19 a 19½c	14 a 15c
Rio, good, " ..	23 a 23½	23 a 23½	20 a 21	20½ a 20½	16½ a 17
Rio, prime, " ..	24 a 24½	24½ a 24½	21 a 21½	21½ a 2½	17½ a 18
Rio, choice, " ..	25 a 25½	25 a 25½	22 a 23	22½ a 2½	18½
Rio, fancy, " ..	26 a 27	25½ a 26	23	24½ a 2½	20 a 22
Java government " ..	32 a 35	33½ a 36	27 a 30	25 a 33	24 a 28
Laguayra " ..	23 a 25	24½ a 26½	22 a 23	22 a 24	17 a 18

Table showing the average annual quotations for prime Rio coffee at Cincinnati, for twenty-three years:

1855-56..... 12.5c	1861-62..... 20 c	1867-68..... 25.25c	1873-74..... 27.49c
1856-57..... 11.8	1862-63..... 30.4	1868-68..... 24 6	1874-75..... 23.07
1857-58..... 11.6	1863-64..... 40	1869-70..... 22 62	1875-76..... 23 12
1858-59..... 12.1	1864-65..... 38.25	1870-71..... 19 25	1876-77..... 22.19
1859-60..... 12.67	1865-66..... 30.66	1871-72..... 23 66	1877-78..... 20
1860-61..... 14.57	1866-67..... 28.75	1872-73..... 23.64	

Table showing the average price of choice Central Ohio butter at Cincinnati, for twenty-one years:

1857-58.....	\$0 15	1864-65.....	\$0 35	1871-72.....	\$0 20.04
1858-59.....	19	1865-66.....	36.33	1872-73.....	23.2
1859-60.....	14.33	1866-67.....	26.5	1873-74.....	27
1860-61.....	13.16	1867-68.....	36 5	1874-75.....	25.33
1861-62.....	12.5	1868-69.....	32.87	1875-76.....	23.16
1862-63.....	11.5	1869-70.....	23.33	1876-77.....	18.68
1863-64.....	29	1870-71.....	24.62	1877-78.....	17.8

The following were the average annual quotations for cheese, during the past twenty-three years—the last seven for factory, previously for Western Reserve:

1855-56.....	\$0 9.7	1861-62.....	\$0 6.3	1867-68.....	\$0 14.2	1873-74.....	\$0 14.7
1856-57.....	10.1	1862-63.....	10.4	1868-69.....	16.5	1874-75.....	14
1857-58.....	8.1	1863-64.....	14	1869-70.....	17	1875-76.....	11.4
1858-59.....	8.2	1864-65.....	19.7	1870-71.....	13.7	1876-77.....	12.2
1859-60.....	8.5	1865-66.....	19.3	1871-72.....	14.5	1877-78.....	10.9
1860-61.....	7.8	1866-67.....	11.7	1872-73.....	14.5		

LABOR STATISTICS OF CINCINNATI.—Marcell.

CLASSIFIED AND COMPARATIVE STATEMENT OF THE NUMBER OF HANDS EMPLOYED IN MANUFACTURING INDUSTRY IN CINCINNATI, FOR THE YEARS 1840, 1850, 1860, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, AND 1877.

Classification.	1840.	1850.	1860.	1869.	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.
Iron.....	1,250	6,075	3,835	10,029	10,723	10,786	10,237	9,146	8,713	8,300	7,341	7,588
Other metals.....	466	921	770	1,736	1,809	1,829	1,573	2,144	2,147	2,534	2,405	2,564
Wood.....	1,426	3,798	4,342	7,847	7,537	8,091	8,204	7,611	7,977	8,024	5,788	8,686
Leather.....	688	2,472	2,953	5,312	4,647	5,067	5,209	4,601	4,920	5,342	5,491	5,553
Food.....	1,567	3,982	787	1,687	2,334	1,363	2,621	2,610	4,957	4,535	4,631	4,366
Soap, candles, and oils.....	1,142	750	880	1,217	1,122	936	1,011	948	1,043	1,087	1,136	1,071
Clothing.....	1,217	3,194	10,440	13,019	12,363	12,770	14,503	13,925	15,198	15,682	15,128	16,904
Liquors.....	110	963	632	2,428	2,301	1,898	1,870	1,632	1,835	1,816	1,772	1,841
Cotton, wool, hemp, etc.....	359	880	626	1,226	1,035	852	898	885	832	844	1,045	1,272
Drugs, chemicals, etc.....	114	391	418	607	735	503	602	274	560	591	611	624
Stone and earth.....	301	841	950	2,273	2,209	1,511	1,568	1,393	2,199	2,181	2,075	2,225
Carriages, cars, etc.....	512	498	739	1,151	1,175	1,170	1,265	1,207	1,335	1,369	1,465	1,858
Paper, etc.....	.....	1,073	229	535	452	452	432	234	602	901	961	999
Book-binding and blank books.....	.....	.....	101	488	424	372	353	319	635	620	590	519
Printing and publishing.....	.....	.....	1,043	2,893	2,588	2,400	2,958	1,993	2,334	2,530	2,489	2,510
Tobacco.....	.....	.....	539	4,131	3,886	4,068	3,549	3,157	3,260	3,201	3,210	3,400
Fine arts.....	139	393	159	278	250	266	144	268	363	367	334	340
Miscellaneous.....	462	2,259	2,348	2,337	4,177	2,919	2,018	2,638	1,990	2,104	2,211	2,421
Totals.....	9,040	28,527	30,208	59,354	59,827	58,443	58,508	55,015	60,099	62,218	60,723	64,709

ARTIFICIAL FISH BREEDING IN OHIO.

BY EMERY D. POTTER,

Superintendent of Ohio State Fish Hatchery.

1853.

Dr. Theodatus Garlick, of Cleveland, fecundated and successfully hatched a large number of trout spawn (*Salmo fontinalis*) in a hatchery near Cleveland, in a small stream putting into the Cuyahoga river. This was, probably, the first experiment in artificial fish hatching on this continent. The fry was secured in two ponds, formed by dams across the stream, keeping the larger fish from the young fry. They grew rapidly here for two years, when a flood came, washed his dam away, and carried all his fish into the Cuyahoga, and very few of them were ever seen afterwards. This ended the doctor's experiments.

1873.

John Hoyt, of Castalia, Erie county, procured and hatched at Castalia Spring, two thousand eastern salmon eggs (*Salmo salar*), and set them free in the Castalia Spring stream, which puts into Sandusky Bay. He also, the same year, hatched quite a large number of brook trout (*Salmo fontinalis*), which were set free in the same stream. The brook trout have multiplied in the stream, until it has become the best stocked trout stream probably in America, and being in the hands of private individuals, who keep good watch over it, it is likely to remain so. The salmon made their way into Lake Erie, where they are now occasionally caught, weighing from three to four pounds.

In 1873 the General Assembly made the first appropriation looking towards the project of artificial fish breeding, and this being but \$1,000, no progress was made in the enterprise.

In March, 1875, an appropriation of \$10,000 was made, and active operations commenced in the succeeding fall, resulting in the construction and equipping of a hatchery, at Toledo, thirty by one hundred feet, capable of hatching twenty millions of white-fish. The breeding of fish here has been exclusively confined to the white-fish (*Coregonus albus*) of the lakes, and three varieties of the salmon, viz.: The Eastern salmon (*Salmo salar*), the California salmon (*Salmo quinnat*), and the Land-locked salmon (*Salmo sebago*).

Herewith is appended, in a condensed form, a history of the operations at the State Hatchery up to January 1, 1879.

There has been transferred to Ohio streams, by the United States Fish Commission, of

SHAD.

July 3, 1872.	In the Cuyahoga at Kent—"a few."	
June 24, 1873.	In Ashtabula	50,000
June 25, 1874.	Grand River, Lake county	60,000
June 26, 1874.	Sandusky River, at Fremont	60,000
July 9, 1874.	Buckingham River, at Bellefontaine	75,000
July 18, 1874.	Black River, at Elyria	65,000
July 18, 1874.	Huron River, at Monroeville	65,000
June 15, 1875.	Scioto River, at Columbus	75,000
June 23, 1875.	Muskingum River, at Bayard	100,000
June 23, 1875.	Muskingum River, at Zanesville	50,700

Total number of shad deposited 590,700

The United States Fish Commission has planted in various streams in the State the

CALIFORNIA SALMON (*Salmo gairdneri*).

Dec. 30, 1873.	In the Muskingum River, at Millbrook	20,000
Jan. 13, 1874.	Sandusky River, at Bucyrus	12,000
Jan. 13, 1874.	Grand River, at Eagleville	10,000
Dec. 9, 1874.	Huron River, at Monroeville	10,000
Dec. 8, 1875.	Anglaize River, at Wapakoneta	45,000
Dec. 8, 1875.	Little Miami, at Sidney	105,000

Total transferred by U. S. Fish Commission 202,000

Mar. 25, 1877.	Received from Northville, Michigan	30,000
Mar. 25, 1878.	Hatched at hatchery in Toledo	220,000

And planted from Toledo hatchery:

Mar. 25, 1877.	Deposited at Elmore, in Portage River	15,000
Mar. 25, 1877.	Maumee Rapids, near Waterville	15,000
Dec. 10, 1877.	Walhonding River	30,000
Dec. 10, 1877.	Muskingum	15,000
Feb. —, 1878.	Whetstone, Columbus	20,000
Feb. —, 1878.	Tuscarawas	30,000
Dec. 25, 1877.	Put-in-Bay Islands	40,000
Dec. 25, 1877.	Castalia Spring, Erie Co	10,000
Dec. 25, 1878.	Maumee Rapids, twelve miles above Toledo	30,000
Dec. 25, 1878.	Huron River, at Huron	15,000
Dec. 25, 1878.	Maumee River, at Defiance	30,000

Total California salmon (including those planted by U. S. Fish Com'n. 452,000

EASTERN SALMON (*Salmo salar*.)LAND-LOCKED SALMON (*Salmo sebago*).

1876. Eastern and Land-locked salmon, hatched at Toledo and planted together	68,000	
Planted at Put-in-Bay, Lake Erie.....		40,000
Maumee Rapids.....		18,000
Sandusky River, at Fremont		10,000
Total		68,000

LAND LOCKED SALMON.

1878. Hatched at Toledo, and planted in Maumee River.....	12,000
---	--------

WHITE-FISH (*Coregonus albus*).

1876. Hatched at Toledo, Cleveland, and Castalia	1,490,000
1876. Received from U. S. Fish Commission, hatched at Northville, Mich	1,000,000
1877. Hatched at Toledo.....	6,000,000
1878. Hatched at Toledo.....	12,100,000
Planted as follows:	
1876. Lake Erie, near Turtle Island	2,420,000
1876. Clear Lake, Summit county	10,000
1877. In Lake Erie, near Turtle Island.....	2,500,000
1877. In Sandusky Bay	2,500,000
1878. In Lake Erie, near the mouth of Crane Creek	6,000,000
1878. Put-in-Bay Islands, Lake Erie	6,000,000
1878. In Havana and Mifflin Lakes, Ashland county, 50,000 each.....	100,000
Total white-fish planted to January 1, 1879	29,590,000

Of the shad set free in our waters, it is said a few have been taken in the Scioto at Columbus. Sufficient time has elapsed since the first deposit in 1872 and 1873 to test the practicability of their acclimatization, and since the experiments have been barren of results, it seems that any further attempt to breed shad in waters inaccessible to the sea would be useless.

It is different with the salmon. Of those transferred to the waters tributary to Lake Erie, many have been taken, showing a fair development into the perfect fish. The salmon will undoubtedly become a fixed denizen of Lake Erie, multiplying in abundance, and although specimens of the three varieties introduced have been taken, sufficient time has not elapsed since their first introduction, in 1876, to develop the spawners. One or two more years, it is believed, will bring them into their spawning grounds, the streams in which they have been set free, especially the streams entering Lake Erie. Of the 105,000 California salmon deposited in the Little Miami at Sidney, in December, 1875,

nothing has been heard. Following their instincts, they are now somewhere in the lower Mississippi, seeking for the ocean, preparatory to a return sooner or later, to surprise the good people of the Miami Valley with a salmon breakfast.

It is not yet time to expect anything from those placed in the Walhonding, Muskingum, Tuscarawas, and Scioto, or Whetstone, as they have had scarcely a year's residence there; yet they are, probably, following the example of their brethren of the Miami, heading down stream toward the Gulf of Mexico.

It has been thought, by some of our old fishermen, that the sea-going salmon, transferred to the streams tributary to Lake Erie, would, in search for the ocean, pass over Niagara Falls, and we should hear no more from them. The prevailing opinion is, however, that they will remain in the deep waters of the lake until their full development into mature fish, and from thence return to the place of their original deposit to deliver their spawn. A year or two more will decide this question.

Of the white-fish no uncertainty exists. Their multiplication by artificial means in the hatching-house, is reduced to the same certainty that the farmer feels in the increase of his sheep, his hogs, his cattle, and his poultry. The water of Lake Erie is his native element and breeding ground. No acclimatization enters into the question of his reproduction. But they have many enemies; not that they devour the fish when hatched—an army of camp followers attend them to their spawning grounds to fatten upon the new laid egg—the sturgeon, an innumerable family of the sucker tribe, catfish, dog-fish, eel pout, sauger, lizzards, and tons of herring swarm upon the spawning grounds of the white-fish, and almost total destruction of their eggs ensue. A five pound white-fish will deposit in a season from fifteen to twenty thousand eggs, and it has been estimated by experts that less than one-eighth of these ever mature into fish when left to their natural course. By artificial spawning, over eighty per cent. of the eggs are fecundated and hatched in the breeding-house.

There is no great danger of their loss when once placed in the lake. They are placed in the deep water; they at once make their way to the lower end of Lake Erie into the deepest water, where there are few predacious fishes; and where they find in the larvæ, the mollusks, and crustaceæ that abound in the deep water, plenty of the food they like, and where they remain and fatten till they are ready to return to the shoals and reefs in the upper end of the lake to deposit their spawn.

With the present force of fishermen and their present system of fishing, without some effort to replenish, the white-fish will become extinct in the great lakes; and it well becomes the State to farm this great source of food supply. White-fish, for the last season, have been sold at the

fishing-grounds along the lake shore in Ohio, at an average of three cents a pound, but little over the expense of handling them. When this fish is admitted to be the most delicate and wholesome fish found in any of our waters, at the price named above, they must ultimately become a staple article of food for our people. It is healthy and nutritious, and may be produced much cheaper than pork and beef. Fish cultivation, on a scale commensurate with the breeding-grounds, can scarcely be prosecuted by individuals, and it could hardly be expected when the results are shared by the people of the State at large.

There is now scarcely a State in the Union, and scarcely a foreign state or kingdom, that has not taken this matter of fish breeding in hand, prosecuting it successfully in their waters, with such fishes as are adapted to the climate. The reports from all the States engaged in it for the last year are full of encouragement, showing beyond a doubt that much good has resulted from the outlay of money thus invested.

It can not be expected that in this paper even a synopsis can be given of the numerous reports received. It is safe to say that they show success in every instance. Our climate is various, stretching from Maine to Texas, and each section is adapted to the growth of different fishes; but to such perfection has the art of fish culture been brought, that each locality has succeeded in largely increasing the native supply. The ocean has not been allowed to escape the scrutiny of the pisciculturist; and her depths have been sounded by his wand, and she has been compelled to yield up her dominion over the lordly denizens of her bosom, and the great deep has become man's farming ground. The experiments of Professor Baird at Gloucester, the last season, bid fair to give us good fishing on our own shores, and although we can not expect England to pay us back our money, it is believed we shall soon be able to do without her fishing grounds.

There are many portions of the State where the speckled trout may be successfully introduced, and arrangements have been made to secure a sufficient quantity of the spawn, the coming fall, to supply the streams adapted to their growth. They will not live in any but the clearest living water, and this may be found in the hilly regions of the State. They spawn at the same time as the white-fish, early in November, and the spawning force of the hatchery was insufficient, the last season, to attend to both. The propagation of the brook trout is not expected to largely increase the food supply of the State, but it affords a healthy recreation to the sedentary man, and a wholesome delicacy to the citizen who has the leisure and skill to capture them.

EELS.

The Fish Commissioners of Michigan have succeeded in introducing the silver eel (*Anquilla communis*) into many of the streams of that State. They are not propagated artificially, but are found early in June, in the upper waters of the Hudson River, N. Y., swarming in millions, where they may be taken and transported without difficulty to any distance.

There have been some objections made to the eel on account of his snake-like form, but it is a delicate fish, wholesome food, and may be propagated to almost any extent in the clear running waters of the State, and in ponds fed by springs.

There are now in the hatchery at Toledo from five to six millions of white-fish eggs, which will be hatched early in March, and deposited in Lake Erie as soon as it is clear of ice.

There are forty-five thousand salmon in the hatchery, hatched last November, from eggs brought from the United States breeding establishment at Redding, California.

INDEX.

A

	PAGE.
Abstract of votes in Ohio (<i>Cope</i>)	175-248
Accidents, death from	404-407
Acres of land in Ohio	505, 506
Administration, letters of, granted	300, 301
Adjutant-General	67, 68
Agriculture, State Board of	71
Agricultural statistics	489-531
Allen, Albert, Executive Secretary of Governor	68
Allen, Johnson, messenger in Governor's office	68
Andrews, John W., member Board State Charities	72
Andrews, James L., Steward Ohio Penitentiary	86
Andrews, E. B., Ohio in the Gate-way	169-173
Apportionment, General Assembly	100-104
Apples, crop of 1877	532, 533
Arboriculture, Read	541-549
Ashburn, Thomas Q., Supreme Court Commission	67, 87
Asylums	76-85; 315-326
Athens Asylum for the Insane, roster of	81
" " " statistics of.....	317, 318
Attorney-General	67, 69
Attorneys, Prosecuting.....	108, 109
Attorneys' fees, in criminal cases paid by counties	237
Auditors, county	110, 111
Auditor, State.....	67, 69, 71

B

Babbitt, Henry S., Chief Clerk Auditor of State's office	69
Banks	455-465
Banks, national, valuation for taxation.....	455-463
Banks, Ohio, capital of and valuation for taxation.....	455-457; 464, 465
Banks, savings, and loan associations incorporated.....	126, 127
Barges built in 1877	602
Barley, crop of 1877	492, 493
Barley, comparative tables	426
Barnes, Milton, Secretary of State	5, 67, 68, 69, 71, 72, 168
Barnes, Frank P., Corporation Clerk Secretary of State's office	68
Bateham, M. B., paper on fruit crops of Ohio.....	536-540
Beebe, James H., Law Librarian	67, 72
Beebe, Frank N., Assistant Law Librarian.....	72

	PAGE.
Classified statement of incorporations	<u>118</u> , <u>119</u>
Clerks of courts	<u>106</u> , <u>107</u>
Cleveland Asylum for the Insane, roster of	<u>80</u>
" " " statistics of	<u>319</u> , <u>320</u>
Clover, crop of 1877	<u>497</u> , <u>498</u>
Clover, comparative table of	<u>499</u>
Coal, statistics of	<u>582</u> , <u>583</u>
Columbus Asylum for the Insane, roster of	<u>79</u>
" " " statistics of	<u>321</u> , <u>322</u>
Common School Fund, payment of to counties	<u>254</u> , <u>255</u>
Common carrier companies incorporated	<u>134</u> , <u>135</u>
Commission to revise and codify the laws, roster of	<u>87</u>
Commissioner of Common Schools	<u>67</u> , <u>70</u>
" Railroads and Telegraphs	<u>67</u> , <u>70</u>
" Labor Statistics	<u>67</u> , <u>73</u>
Congress, members of the forty-sixth	<u>63</u>
Congress, Senators and Representatives in, 1789 to 1881	<u>42-63</u>
Constitutional diseases	<u>375-381</u>
Conveyance statistics	<u>477-488</u>
Co-operative associations incorporated	<u>128-131</u>
Cope, Alexis, Chief Clerk Secretary of State's office	<u>68</u>
Corn, crop of 1877	<u>492</u> , <u>493</u>
Corn, comparative tables of	<u>494</u>
Corn planters	<u>601</u>
Coroners, county	<u>114</u> , <u>115</u>
Coroners' inquests	<u>406</u> , <u>407</u>
Corporations	<u>3</u> , <u>117-141</u>
Counties, debts of	<u>452-454</u>
County buildings, number and value of	<u>604</u> , <u>605</u>
County buildings, new	<u>604-608</u>
County officers, roster of (<i>Rose</i>)	<u>105-115</u>
Courts, times of holding	<u>96-99</u>
Cox, Horatio J., clerk in Auditor of State's office	<u>69</u>
Creed, William J., janitor of flag-room	<u>71</u>
Criminal statistics	<u>269-286</u> ; <u>312-314</u>
Crimes against the person	<u>269-274</u>
" " property	<u>275-280</u>
" " public peace, etc	<u>281-286</u>
Crop statistics	<u>489-531</u>
Cultivated lands, acres in Ohio	<u>505</u> , <u>506</u>
Cummins, Robert, Treasurer Ohio State Fish Commission	<u>72</u>
Cunningham, W. M., Statistical Clerk, Secretary of State's office	<u>68</u>

D

Dairy products	<u>507</u> , <u>508</u>
" comparative table of	<u>508</u>
Daugherty, M. A., Codifying Commission	<u>67</u> , <u>87</u>
Day, Luther, Supreme Court Commission	<u>67</u> , <u>87</u>

	PAGE
Estates administered upon	300, 301
Evans, J. C., Member Board of Public Works	67, 70
Expenses and taxes of cities of the first and second class	449-451

F

Fanning, R. J., Clerk Supreme Court	67-87
Fanning, M. A., Deputy Clerk of Supreme Court	87
Fay, Gilbert O., Superintendent Ohio Institution for Deaf and Dumb	76
Fines, costs, and forfeitures	264-266
Fire, flood, etc., property destroyed by	612, 613
First white child born in Ohio	38
Fisher, John C., President Ohio State Fish Commission	72
Fish culture in Ohio, history of (<i>Potter</i>)	642-647
Fire insurance companies incorporated	128-131
Firestone, L., Superintendent Columbus Asylum for Insane	79
Fitch, Jabez W., Lieutenant-Governor	67
Fitch, Daniel G., Chief Clerk Adjutant-General	71
Flax, crop of 1877	500, 501
Flat-boats	602
Flemming, James W., Assistant Secretary State Board of Agriculture	71
Foreign debt	424
Forests, number of acres in	505, 506
Fruit crops of Ohio (<i>Bateham</i>)	536-540

G

Gas companies incorporated	134, 135
Geiger, Frederick, Chief of Engineers	68
General Assembly, members of Sixty-third	90-93
Geology north-eastern Ohio (<i>Whittlesey</i>)	561-590
Gilmore, W. J., Judge Supreme Court	67, 70
Girls' Industrial Home, roster of	84
“ “ number sent to from each county	306, 307
Gnaddenhutten	14
Governor of Ohio	67, 68
Governors of Ohio, Territorial and State	41
Grapes, crop of 1877	534, 535
Grand duplicates of Ohio, comparative summary of	428-431
Grand duplicate of 1878	432-435
Green, Fred., Deputy Clerk Supreme Court Commission	87
Guardianship, letters of issued	298, 299

H

Harbaugh, Mary C., Assistant State Librarian	72
Harris, L. A., Secretary Ohio State Fish Commission	71
Hay	497-499
“ comparative table of	499
Heckewelder, Rev. John	29, 33
Hennessy, Andrew, foreman of laborers	71

PAGE

Higgins, Robert <u>II</u> , transcribing clerk Adjutant-General.....	71
Hills, R., Superintendent Girls' Industrial Home.....	34
Hite, John C., Superintendent Ohio Reform School.....	85
Hoagland, Leander R., Assistant Adjutant-General	68
Hogs	<u>511, 512, 519, 520</u>
Honey produced in Ohio	503
Horticultural statistics	<u>523-540</u>
Hospitals for the insane.....	<u>317-325</u>
" number of persons from each county sent to.....	<u>302, 303</u>
Horses	<u>509, 510; 521, 522</u>
Houk, George W., Jr., transcribing clerk, Adjutant-General.....	71
Howells, Anthony, Treasurer of State.....	<u>67, 69</u>
Howells, A. J., book-keeper Treasurer of State's office.....	69
Hunt, Samuel F., Judge-Advocate General	68

J

Jackson, W. J., Chief Engineer Board Public Works.....	70
Jail statistics in Ohio.....	<u>312-314</u>
Johnson, W. W., Supreme Court Commission	<u>67-67</u>
Jones, D. R., clerk Codifying Commission	87
Judges of Supreme Court, roster of.....	87
" Court of Common Pleas, roster of	<u>94, 95</u>
" United States Circuit and District Courts, roster of.....	<u>88, 89</u>
Judgments, civil.....	<u>267, 268</u>
Judicial statistics of Ohio	<u>263-267</u>

I

Internal revenue tax	<u>427</u>
Iron ore.....	<u>579-583</u>
Iron, review of	585-590
Iron, statistics of.....	<u>579-590; 600, 601</u>
Iron—table of bar, hoop, nail, rod, sheet, boiler, and railroad rails manufactured in 1877	<u>590</u>
Iron, rolled	<u>585-590</u>
Irreducible State debt, interest on	<u>251; 444-447</u>
Imports and exports of Cincinnati	627
Incorporations (<i>F. P. Barnes</i>)	<u>117-141</u>
" miscellaneous	<u>138-140</u>
" changes in	<u>136, 137-140</u>
" of cities and villages	<u>141</u>
" classified statement of	<u>118, 119</u>
Indebtedness and taxation.....	<u>424-425</u>
Indictments	<u>269-286</u>
Inquests held in Ohio.....	<u>406-407</u>
Insane—number of sent from each county to Ohio hospitals.....	<u>302, 303</u>
Insurance and co-operative associations.....	<u>128-131</u>
Interest, distribution of to counties.....	<u>444, 445</u>
Inspector of mines	<u>67-373</u>

K

PAGE.

Keifer, George, Superintendent O. S. and S. O. Home	83
Kinsman, Dr. D. N., paper on vital statistics	408-421
Klippart, John <u>H.</u> , general Secretary State Board of Agriculture.....	67, 71

L

Land—acres on grand duplicate	432, 434
Lands, cultivated, pasture, wood, waste	505, 506
“ sales of	478-483
Laurens, A. B., Superintendent Deaf and Dumb printing office.....	70
Layman, Amos, Clerk Codifying Commission	87
Leases	487, 488
Lee, James, special watchman Treasurer of State's office.....	69
Lemoine, Lewis, general watchman Treasurer of State's office.....	69
Letters of guardianship and administration	298-301
Lichtenau	15
Lilley, M. C., Superintendent State bindery	70
Lime	603
Lind, Carrie, corresponding clerk Superintendent of Insurance.....	70
Live stock. (See <i>Domestic Animals</i> .)	
Local diseases.....	379-397
Local taxes on grand duplicate, 1878.....	436-439
Locomotives, number built in 1877	601
Lots, city, town, and village, sales of	432, 433
Longview Asylum for the Insane, roster of	82
“ “ “ statistics of.....	324, 325

M

McWhorter, J. B., Warden Ohio Penitentiary	86
Manufacturing companies incorporated.....	120-123
Manufactures	585-590, 600-641
Manufacturers' stock returned for taxation	440, 441
Manufactures of Cincinnati	624-636
Maple sugar and molasses made in 1877	503, 504
Maxwell, Sidney D., Trade, commerce, etc., of Cincinnati.....	614-641
Marble, F. A., Clerk of Fund Commissioners	69
Marriages in each county in Ohio	290, 291
McIlvaine, G. W., Judge of the Supreme Court	67, 87
Meadow products	497-499
“ comparative tables.....	499
Meily, Luther M., Adjutant-General	67, 68
Merchants' stock returned for taxation	440, 441
Merrick, F. W., assistant clerk Railroad Commissioner	70
Meteorology.....	550-557
Meteorological tables.....	551-557
Miller, C. A., Superintendent Longview Asylum for Insane.....	82
Mines, mining, and manufactures in Ohio	679-641

PAGE.

Mining statistics	579-584
Mining companies incorporated	128, 129
Miscellaneous manufactures—tables of	600-603, 622-634
Moneys and credits	442, 443
Moravian missions in Ohio—history of (<i>Smucker</i>)	7-38
Morse, D. A., Superintendent Dayton Asylum for Insane	81
Mortgages	484-486
Mowing machines	601
Mules	509, 510

N

Nails, spikes, etc., made in 1877	590
Naturalization statistics	294-297
Newburgh, A. B., Secretary Board of Public Works	70
New Salem	25
Newburg, F. W., Assistant Secretary Board of Public Works	70
New structures in Ohio. (<i>See Building Statistics.</i>)	
Non-taxable bonds	466
Nosological tables and nosology of Ohio	363-421

O

Oats—crop of 1877	492, 493
“ comparative table	495
Official roster of Ohio	65-115
Ohio State University—roster of	74
Ohio, and Ohio State Reports on hand	4
Ohio Institution for the Education of the Deaf and Dumb—roster of	76
“ “ “ “ statistics of	315
Ohio Institution for the Education of the Blind—roster of	77
“ “ “ “ statistics of	315
Ohio Institution for the Education of Imbecile Youth—roster of	78
“ “ “ “ statistics of	316
Ohio Soldiers' and Sailors' Orphans' Home—roster of	83
“ “ “ “ statistics of	316
Ohio Reform School—roster of	85
“ “ statistics of	326
Ohio in the Gateway (<i>Andrews</i>)	169-173
Ohio Penitentiary—roster of	86
“ “ statistics of	327-328
Okey, John W., Judge of the Supreme Court	67, 87
Okey, George B., Codifying Commission	67, 87
Okey, T. W., Clerk “	87
Orchards, acres in	532, 533
Orton, Edward, President Ohio Agricultural and Mechanical College	75
“ Paper on Berea Sandstone	590-599
Ostrander, Charles H., Stationery Clerk Secretary of State's office	65

P

Paper for the State	
Paper, manufacture of	

	PAGE.
Pasture lands.....	<u>505</u> , <u>506</u>
Paupers, pauperism, and cost in each county in Ohio.....	<u>310</u> , <u>311</u>
Peaches—crop of 1877.....	<u>532</u> , <u>533</u>
Pears—crop of 1877.....	<u>532</u> , <u>533</u>
Pennington, Joseph P., Actuary Superintendent of Insurance.....	<u>70</u>
Perkins, Joseph, Member Board State Charities.....	<u>72</u>
Petroleum.....	<u>553</u>
Pig-iron.....	<u>579-582</u>
“ consumption of in the United States.....	<u>581</u>
Pillars, Isaiah, Attorney-General.....	<u>67</u> , <u>69</u> , <u>71</u>
Pillars, James, Clerk Attorney-General's office.....	<u>69</u>
Pilgeruh Mission.....	<u>24</u>
Pioneer Missionary in Ohio.....	<u>9</u>
Plank-roads, number, length, and costs of.....	<u>476</u>
“ incorporated.....	<u>126</u> , <u>127</u>
Plows.....	<u>600</u> , <u>601</u>
Potatoes—crop of 1877.....	<u>500</u> , <u>501</u>
“ sweet, crop of 1877.....	<u>500</u> , <u>501</u>
Potter, Emery D., Superintendent Ohio State Fish Hatchery.....	<u>72</u>
“ Paper on fish culture.....	<u>642-647</u>
Pork-packing in Ohio.....	<u>635-637</u>
Poston, James D., Inspector of Mines.....	<u>67-73</u>
Post, Rev. Charles Frederick.....	<u>9</u>
Printing and publishing companies incorporated.....	<u>132</u> , <u>133</u>
Printing for the State.....	<u>4</u>
Probate judges in Ohio.....	<u>106</u> , <u>107</u>
Prosecuting attorneys.....	<u>108</u> , <u>109</u>
Prosecutions.....	<u>269-286</u>
Public debts, property and taxation.....	<u>423-466</u>
Public funded debt.....	<u>424</u>
Pugh, J. M., President State Board of Agriculture.....	<u>70</u>

Q

Quinn, Joseph, Deputy Warden Ohio Penitentiary.....	<u>86</u>
Quotations, annual, comparative tables of.....	<u>638-640</u>

R

Railroads, length, stock, debts, and traffic of.....	<u>471-475</u>
“ mortgages.....	<u>486</u>
“ property, valuation of.....	<u>467-470</u>
“ companies incorporated.....	<u>124-127</u>
“ comparative table.....	<u>471</u>
“ consolidations, extensions, changes of name, etc.....	<u>122</u> , <u>123</u> , <u>140</u>
“ statistics of.....	<u>467-475</u>
Rain fall.....	<u>553</u>
Read, Prof. M. C., paper on arboriculture.....	<u>541-549</u>
Reaping machines.....	<u>601</u>
Recognizances, forfeited.....	<u>264-266</u>

	PAGE.
Recorders, county	<u>112</u> , <u>113</u>
Reeves, S. L., clerk Ohio Penitentiary	<u>86</u>
Reform Schools, boys and girls sent to	<u>304</u> , <u>307</u>
Robinson, Godfrey M., Statistician, Auditor of State's office	<u>69</u>
Rose, John W., Recording Clerk, Secretary of State's office	<u>68</u>
Ryan, James B., clerk Commissioner of Common Schools	<u>70</u>
Rye, crop of 1877	<u>490</u> , <u>491</u>
Rye, comparative table of	<u>496</u>

S

Salt, bushels produced in 1877	<u>583</u>
Saw mills, portable, manufactured	<u>601</u>
" " in use in Ohio	<u>601</u>
Schilder, Martin, member Board of Public Works	<u>67</u> , <u>70</u>
Scholars, enumeration of	<u>254</u> , <u>255</u> , <u>259</u> , <u>448</u>
School fund, payments and receipts of	<u>251-255</u>
School districts, debts of	<u>256</u>
Schools, Ohio, matters relating to, (<i>Burns</i>)	<u>257-262</u>
School officers, statistics of	<u>259</u>
Schönbrun	<u>13</u>
Scott, Josiah, Supreme Court Commission	<u>67</u> , <u>87</u>
Secretary of State	<u>5</u> , <u>67</u> , <u>68</u> , <u>168</u>
Selzer, J. D., Cashier Treasurer of State's office	<u>69</u>
Sewing machines	<u>601</u>
Sheep	<u>511</u> , <u>512</u> , <u>519</u> , <u>520</u>
Sheep killed and injured by dogs	<u>513</u> , <u>514</u>
Shepherd, W. Staley, clerk in Auditor of State's office	<u>69</u>
Sheriffs	<u>108</u> , <u>109</u>
Shipley, Murray, member Board State Charities	<u>72</u>
Smead, George L., Superintendent Institution for the Blind	<u>77</u>
Smelz, George C., Assistant Superintendent State Bindery	<u>70</u>
Smucker, Isaac, paper on Moravian Missions in Ohio	<u>7-38</u>
Social statistics	<u>289-328</u>
Sorghum, produced in 1877	<u>503</u> , <u>504</u>
Stationery account (<i>Ostrander</i>)	<u>143-165</u>
Statutes on hand	<u>4</u>
State debt	<u>424</u>
Steamboats built in 1877	<u>602</u>
Steam boilers made in 1877	<u>601</u>
Steam engines made in 1877	<u>601</u>
Steel, statistics of	<u>585-590</u>
Steel, tables of railroad rails, etc.	<u>586-590</u>
Stible, Frank, Superintendent State Arsenal	<u>71</u>
Stimson, R. M., State Librarian	<u>67</u> , <u>72</u>
Stone ware	<u>603</u>
Stoves, hollow-ware, etc.	<u>600-601</u>
Street railroad companies incorporated	<u>126</u> , <u>127</u>
Strong, Jamin, Superintendent Cleveland Asylum for the Insane	<u>80</u>

	PAGE.
Sugar mills manufactured in 1877	601
Sugar and syrup manufactured in 1877	503, 504
Supreme Court, roster of	87
Supreme Court Commission, roster of	87
Suicides	404-407
Surveyors, county	112, 113
Sweet potatoes, crop of 1877	500, 501

T

Taxable lands in Ohio	504, 505
" " comparative table of	504
Taxation for 1879	426, 427
Taxes, local, on grand duplicate for 1878	436-439
" for school purposes for 1878	252, 253
" cost of collecting	427
Teachers—average wages of	259
Temperature of winter months—1832 to 1878	554
" spring " " 	555
" summer " " 	556
" fall " " 	557
Thatcher, Peter, member Board of Public Works	67, 70
Thomas, D. N., messenger Treasurer of State's Office	69
Threshing machines	601
Timothy crop of 1877	497, 498
" comparative table of	499
Tobacco—crop of 1877	502
" comparative table of	502
Toledo House of Refuge—roster of	85
" " statistics of	326
Townships, debts of	452-454
Townshend, Dr. N. S.—Diseases of Domestic Animals	523-531
Trade, commerce, and manufactures of Cincinnati (<i>Marxell</i>)	614-641
Treasurer of State	67, 69
Treasurers, county	110-111
Turnpikes incorporated	126, 127
" number, miles, and cost of	476
Turner, Milton, janitor of rotunda	71

U

United States Circuit and District Courts—roster of	88, 89
" internal revenue tax collected in Ohio	427

V

Valuations for 1878	426
" and taxation in principal cities of Ohio	449-451
" " table of	432-439
Vessels built in 1877	602

	PAGE.
Violent deaths	402-406
Villages, debts of	452-454
Vital statistics	329-421
" paper on (<i>Kinsman</i>)	408-421
Vineyards in Ohio	534, 535
" number of acres planted in 1877	534, 535

W

Walls, H. J., Commissioner of Labor Statistics	67, 73
Water from rain and melted snow	551, 553
Welker, George, packing department, Secretary of State's office	68
Wetmore, Charles J., Clerk in Auditor of State's office	69
Wheat crop of 1877	490-491
Wheat, comparative table of	494
Wheat drills	601
White, William, Judge Supreme Court	67, 87
Whittlesey, Col. Charles, Geology of Northern and Eastern Ohio	561-590
Williams, James, Auditor of State	67, 69, 71
Williams, James A., clerk in Auditor of State's office	69
Williams, Samuel, clerk in Auditor of State's office	69
Williams, John, messenger Auditor of State's office	69
Williams, Prof. Milo G., meteorological tables	550-557
Wills	300-301
Wilson, Josiah, janitor Secretary of State's office	68
Wine, gallons in 1877	534, 535
Wing, L. B., Treasurer State Board of Agriculture	71
Woods, C. P., mailing clerk Superintendent of Insurance	70
Wool, clip of 1877	513, 514
Wright, D. Thew, Supreme Court Commission	67, 67
Wright, Joseph F., Superintendent of Insurance	67, 70
Wright, J. Gano, bookkeeper Superintendent of Insurance	70

Y

Yarnell, E. B., clerk Codifying Commission	87
Young, Charles L., Quartermaster-General	68
Youth, enumeration of	254, 255, 259, 448

Z

Zeisberger, Rev. David	29, 30
Zymotic diseases	363-375

* *



Feb 24 1932

